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ABSTRACT

Produced by participants at the Unesco Regional workshop on Population and Family Education held in Bangkok, Thailand, in October 1970, the instructional materials intended for elementary and secondary students are to be considered sample first-draft materials usable for reference purposes by groups responsible for designing population education curricula in individual countries. The objective is to help students become aware of the advantages of family planning in terms of better health, inter-personal relationships, and quality of life for the welfare of not only the family, but also the community and the nation. A variety of teaching techniques such as role playing, plays, and other activities are suggested for each of the eight units: 1) Family size and family welfare; 2) Planning for the future; 3) Quality of life in a family; 4) Effects of rapid population-growth on the community (Philippines); 5) Population-growth and quality of life (Indonesia); 6) The impact of rapid population-growth on the sociocultural life of the people; 7) Economic consequences of rapid population-growth; and 8) Population. Units provide information as to level, objectives, content, procedures, and activities. (SJM)

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POPULATION
AND FAMILY EDUCATION

**DRAFT
SAMPLE
INSTRUCTIONAL
MATERIALS**

SOCIAL STUDIES



Unesco Regional Office for Education in Asia
Bangkok, 1971

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POPULATION
AND FAMILY EDUCATION

**DRAFT
SAMPLE
INSTRUCTIONAL
MATERIALS**

SOCIAL STUDIES

The curve on the cover is a representation of world population growth over a period of about ten thousand years, into the 21st Century.

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REGIONAL WORKSHOP ON POPULATION AND FAMILY EDUCATION

Bangkok, Thailand

7 September - 7 October 1970

POPULATION AND FAMILY EDUCATION

Book II

DRAFT SAMPLE INSTRUCTIONAL MATERIALS

Social Studies

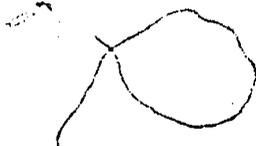
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The views expressed in this document are those of the participants of the Regional Work
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Preface

1. The sample instructional materials in this volume were produced by participants at the Unesco Regional Workshop on Population and Family Education held in Bangkok, Thailand, from 7 September to 7 October 1970.
2. They have not been pupil-tested or elaborately revised, and should be considered *sample first-draft material* usable for reference purposes by groups responsible for designing curricula in individual countries.
3. *The multi-dimensional relationships between population growth, its possible determinants and its possible consequences are so complex, and in many cases so little understood, that for particular countries some of the relationships indicated in the instructional materials may be non-existent or even the opposite of those indicated. Great care will have to be taken in utilizing these draft materials in the production of specific instructional materials for individual countries.*
4. The concepts for which these draft sample instructional materials were written were selected by the participants themselves from the larger body of concepts they had developed during the preceding phases of the Workshop. (See Final Report of the Workshop).

Type of instructional material: Teachers' Guide

Subject: Social studies, language, art, home-making, music

Age group/level: Primary (Grades III, IV)

Family Size and Family Welfare

Introduction: "Formal" lessons would require about 5 periods of 30 minutes each and the activities could be spread over a term at suitable points in the teaching. They could be incorporated in social studies, and the other activities in art, language, home-making, or music.

Objectives: To create an awareness of the benefits of the small family norm.

Content: Main ideas: Family size can be controlled; children and old people are dependent; quality of living is affected by family size; quality of life is better in small families.
Sub-ideas: Family unit (family smallest unit in our social organization; nuclear and joint; members of family; there are small and large families; family size can be controlled; traditional beliefs that must be modified - folklore, religion, sex preference; members of household; role of each member; privileges and responsibilities of each member; ideal size 2 or 3; old people imposing ideas; members of family dependent; dependency of children in human society - care of babies; small families maintain growth; functions of family; how father helps, how mother helps; father helps mother keeps house in order, takes care of children; children help in the other).

Family facilities (family size and budget - reasonable income; enough accommodation for each other and more attention from parents; small families: fewer children and rural families; adolescent children have to work to contribute to large families; land or property divided when children grown up; spur to developing families are bigger; fewer children more money to spend on developing land; families need housing, food, clothing; big families consume more food, clothing; there is less to spend on agriculture when family is large; family size is related to size of family; there is a relation between good living and family needs space for sleep, rest, work, play; more facilities needed by

Instructional material: Teachers' Guide

al studies, language, art, home-making, music

Level: Primary (Grades III, IV)

Family Size and Family Welfare

"Formal" lessons would require about 5 periods of 30 minutes each and the rest of the activities could be spread over a term at suitable points in the teaching. The formal lessons could be incorporated in social studies, and the other activities in art, handiwork, language, home-making, or music.

To create an awareness of the benefits of the small family norm.

Main ideas: Family size can be controlled; children and old people are dependents; standard of living is affected by family size; quality of life is better in small families.

Sub-ideas: Family unit (family smallest unit in our social organization; kinds of families - nuclear and joint; members of family; there are small and large families; family size can be controlled; traditional beliefs that must be modified - folklore, religion, superstition, sex preference; members of household; role of each member; privileges and responsibilities of each member; ideal size 2 or 3; old people imposing ideas; members of family not yet born; dependency of children in human society - care of babies; small families mean less population growth; functions of family; how father helps, how mother helps; father breadwinner, mother keeps house in order, takes care of children; children help in the home, help each other).

Family facilities (family size and budget - reasonable income; enough accommodation; more time for each other and more attention from parents; small families: fewer playmates; urban and rural families; adolescent children have to work to contribute to large families - child labour; land or property divided when children grown up; spur to developing more land when families are bigger; fewer children more money to spend on developing land, luxuries, recreation; families need housing, food, clothing; big families consume more food, space for living, clothes; there is less to spend on agriculture when family is large; comfortable living is related to size of family; there is a relation between good living and a healthy life; a family needs space for sleep, rest, work, play; more facilities needed by big families).

Family welfare: (health of mother, welfare of family members, both related to family; health risks in large families; sanitation and nutrition; better health, and worries in small family; money is required for medical attention; large may have more deaths; hygienic habits and health life; systematic distribution of easier in small family).

Procedures:

Introductory talk - Today children we start gathering some useful ideas about families which we all live. Everybody has a family, but we just take it for granted. We will be a good idea to know what a family is all about ... why are there families? ... what are the conditions in these families? ... what they do and so on. To do this I'll need your help.

Note: In order to provide, in effect, an experimental situation, the two families should both be from rural areas (or both from urban areas). In developing this unit perhaps four families could be presented - two rural and two urban - with the teacher invited to choose the most relevant pair. In the lesson plans below, however, only one rural and one urban situation has been taken. The teacher would need to develop the conditions in a similar way.

Lesson 1. My family and I

Class group activity:

Perhaps we could all put our heads together and pool our imaginations, and form two families who live in Ceylon. We'll call them the Banda and the Sena families. The Bandas live in Beruwella, which is a small fishing village by the sea. The Senas live in Kandy, which is the second largest town in Ceylon. The Bandas have a large family and the Senas have a small family.

Now who would like to be Mr. Banda? Who would like to be Mr. Sena?

Now we want a Mrs. Banda that's right and a Mrs. Sena

Well, Mr. and Mrs. Banda stand on the right of me, and Mr. and Mrs. Sena on the left. To continue with forming our families, will Mr. and Mrs. Banda talk to each other and Mrs. Sena talk together and let me know how many children they've each got in their families. While they are doing that I'll divide the blackboard in two to jot down how the families are growing, and what they are doing.

Family welfare: (health of mother, welfare of family members, both related to size of family; health risks in large families; sanitation and nutrition; better health, less tension, and worries in small family; money is required for medical attention; large families have more deaths; hygienic habits and health life; systematic distribution of work is easier in small family).

Introductory talk - Today children we start gathering some useful ideas about families in which we all live. Everybody has a family, but we just take it for granted. Wouldn't it be a good idea to know what a family is all about ... why are there families? ... who lives in these families? ... what they do and so on. To do this I'll need your help.

Objective: In order to provide, in effect, an experimental situation, the two families should be chosen from rural areas (or both from urban areas). In developing this unit further, perhaps four families could be presented - two rural and two urban - with the teacher instructed to choose the most relevant pair. In the lesson plans below, however, only one rural and one urban situation has been taken. The teacher would need to develop the other situations in a similar way.

Lesson 1. My family and I

Perhaps we could all put our heads together and pool our imaginations, and form two typical families who live in Ceylon. We'll call them the Banda and the Sena families shall we? The Bandas live in Beruwella, which is a small fishing village by the sea. The Senas live in Kandy, which is the second largest town in Ceylon. The Bandas have a large family, and the Senas have a small family.

Who would like to be Mr. Banda? Who would like to be Mr. Sena?

Now we want a Mrs. Banda that's right and a Mrs. Sena

Now Mr. and Mrs. Banda stand on the right of me, and Mr. and Mrs. Sena on the left. Now we continue with forming our families, will Mr. and Mrs. Banda talk to each other and Mr. and Mrs. Sena talk together and let me know how many children they've each got in their families. While they are doing that I'll divide the blackboard in two to jot down how our families are growing, and what they are doing.

Mr. and Mrs. Banda would like to have ... children in their family, they t
and Mrs. Sena? Any volunteers for being these children?

The next question is how old are the Banda children? How old are t

I wonder whether either the Bandas or the Senas have their grandparents li

Now Mr. Banda could you tell me how old you are and what you do? And what
Mrs. Banda do you go to work? No? Why? Is it because you have a lot of
your many children in the home? And what sort of work do you do in the ho
Sena I can see that you look the kind of woman who goes to work? Very sma
Who looks after the work in the house when you are away?

Mr. Banda how many rooms do you have in your home? And Mr. Sena?

And now perhaps each of the Banda children will tell me how they help their
the home? Master and Miss Sena what do you do?

Mrs. Banda could you tell me what sort of things you have in your house?
could you tell me something about your home?

Assignment/
Evaluation:

1. Draw the Banda and Sena family tree. Fill in the names of the members
2. Start a family album. Perhaps you can make your own scrap book out of
collect pictures of all kinds of families, members of a family, photograph
family, and things families use. I'll help you with ideas as we go along.

Lesson 2. Things and my family

Procedures:

Introductory talk - Now we know what a family is and what it does. Have y
about the idea that families need things? Very often they need the same t
each family uses them, and in what ways these things are collected differ
family, depending on how large or small the family is, where the family li
money the family has to spend. Let's find out more about this.

Mr. and Mrs. Banda would like to have ... children in their family, they tell me, and Mr. and Mrs. Sena? Any volunteers for being these children?

The next question is how old are the Banda children? How old are the Sena children?

I wonder whether either the Bandas or the Senas have their grandparents living with them?

Now Mr. Banda could you tell me how old you are and what you do? And what does Mr. Sena do? Mrs. Banda do you go to work? No? Why? Is it because you have a lot of work looking after your many children in the home? And what sort of work do you do in the house? And Mrs. Sena I can see that you look the kind of woman who goes to work? Very smart and efficient. Who looks after the work in the house when you are away?

Mr. Banda how many rooms do you have in your home? And Mr. Sena?

And now perhaps each of the Banda children will tell me how they help their busy mother in the home? Master and Miss Sena what do you do?

Mrs. Banda could you tell me what sort of things you have in your house? And Mrs. Sena could you tell me something about your home?

1. Draw the Banda and Sena family tree. Fill in the names of the members of the family.
2. Start a family album. Perhaps you can make your own scrap book out of brown paper and collect pictures of all kinds of families, members of a family, photographs of your own family, and things families use. I'll help you with ideas as we go along.

Lesson 2. Things and my family

Introductory talk - Now we know what a family is and what it does. Have you ever thought about the idea that families need things? Very often they need the same things, but how each family uses them, and in what ways these things are collected differ from family to family, depending on how large or small the family is, where the family lives, and how much money the family has to spend. Let's find out more about this.

*Class group
activity:*

Now children as in our last lesson we will form the Panda and Sena families, and will find out about the things in their families. While the Pandas and the Senas on my right and left I'll divide the blackboard into two to jot down a list for each. Here's one half for the Banda family and the other half for the Senas. Or perhaps leave a little more room for the large Banda family.

First to remind ourselves, will Mr. Banda tell us where he and his family live? Sena where do you live?

Mr. Banda what is your work? Mr. Sena what is your work?

I can see Mrs. Sena wants to tell me something yes it's about her

Now Mr. Panda how much do you earn a month by fishing, and selling your fish? And Mrs. Sena how much do both of you earn?

Mr. Banda do you live in your own home? And Mr. Sena shall we say that you live in someone else's house you have to pay a rent for?

Now will Mr. and Mrs. Panda and Mr. and Mrs. Sena get together and tell me what things they have to buy for your family every month? The children can also help to draw up the list. As you think of the things I'll write them down on the blackboard. Could Mrs. Banda come out of her family budget how much she will spend on housing food clothing leisure? Will Mrs. Sena do the same.

Now you can see that the Banda and Sena family need mostly the same things, but the Banda family has 8 members and the Sena family has only 4 the Banda family has to buy more things.

What about space to rest, sleep, work and play. Mr. Banda how many rooms did you have in your house? Mr. Sena how many rooms are there in your house? So you see that the Banda family children will all have to squeeze into two rooms. But remember the Banda family lives in a village so they can play in the fields or go down to the beach. The Sena family in Kandy probably lives on a crowded road.

children as in our last lesson we will form the Banda and Sena families, and today they will find out about the things in their families. While the Pandas and the Senas come up on my right and left I'll divide the blackboard into two to jot down a list for each family. The left half is for the Banda family and the other half for the Senas. Or perhaps we should leave a little more room for the large Banda family.

First to remind ourselves, will Mr. Banda tell us where he and his family live? And Mr. Sena where do you live?

Banda what is your work? Mr. Sena what is your work?

Can you see Mrs. Sena wants to tell me something yes it's about her work

Mr. Banda how much do you earn a month by fishing, and selling your fish? And Mr. and Mrs. Sena how much do both of you earn?

Banda do you live in your own home? And Mr. Sena shall we say that you live in someone else's house you have to pay a rent for?

Will Mr. and Mrs. Banda and Mr. and Mrs. Sena get together and tell me what things you need to buy for your family every month? The children can also help to draw up the list. You think of the things I'll write them down on the blackboard. Could Mrs. Banda tell me about her family budget how much she will spend on housing food clothing Are you sure? Will Mrs. Sena do the same.

As you can see that the Banda and Sena family need mostly the same things, but because the Banda family has 8 members and the Sena family has only 4 the Banda family has to buy many more things.

Now about space to rest, sleep, work and play. Mr. Banda how many rooms did you say you have in your house? Mr. Sena how many rooms are there in your house? So you can see that the Banda family children will all have to squeeze into two rooms. But remember the Banda family lives in a village so they can play in the fields or go down to the beach. The Sena family in Kandy probably lives on a crowded road.

Finally let's find out what the Banda and Sena family do in their leisure (Banda family put their heads together and tell me what they like to do on religious holiday)? Does Mr. Banda have to go fishing or can he take a day off? How could the family go down to the Peradeniya Gardens and spend the whole day together?

Assignment/
Evaluation:

How are your scrap books getting along? As you know the Banda family has to spend on the things they need. The Sena family has Rs. Y to spend on their leisure. With the help of your mothers try and fill in this form for each family given amounts of money in rupees to be spent on each item for a month.

<u>House</u>	<u>Food</u>	<u>Clothes</u>	<u>Other things</u>	<u>Leisure</u>
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When the children bring their homework to class a short discussion could be held on the distribution of a family budget, according to the size of the family as related to the availability of facilities.

Lesson 3. A happy family

Procedures:

Introductory talk - To begin with, today children, let's just think back to the last lesson. In talking and thinking about "Things and my family" we found out some useful information about the various things that families need and how they spend money on them. We also found that the Senas, who have a small family found it easier than the Bandas to distribute their family budget. We ended up by saying that we all want to be a healthy, happy, wealthy and wise family. These things don't come easily. There are lots of things various members of the family can do to become a happy family. Let's find out from the Senas and Bandas, shall we, how this can be done.

Class group activity:

Yes, it's time once again to hear from the Banda and Sena family, about their leisure activities along and take your places while I divide the blackboard into two for the Banda family, and the other half for the Senas.

Now Mrs. Banda let's say you are going to the Pola (weekend Fair) to buy provisions for your family. Perhaps you can take young Anil along with you as

Finally let's find out what the Banda and Sena family do in their leisure time. Will the Banda family put their heads together and tell me what they like to do on a Poya day (religious holiday)? Does Mr. Banda have to go fishing or can he take a day off? The Sena family could go down to the Peradeniya Gardens and spend the whole day together.

How are your scrap books getting along? As you know the Banda family has a budget of Rs.X to spend on the things they need. The Sena family has Rs.Y to spend on their family budget. With the help of your mothers try and fill in this form for each family giving actual amounts of money in rupees to be spent on each item for a month.

House Food Clothes Other things Leisure

When the children bring their homework to class a short discussion could be held on the distribution of a family budget, according to the size of the family as related to the welfare and availability of facilities.

Lesson 3. A happy family

Introductory talk - To begin with, today children, let's just think back quickly to our last lesson. In talking and thinking about "Things and my family" we found out quite a lot of useful information about the various things that families need and how they spend their money on them. We also found that the Senas, who have a small family found it much easier than the Bandas to distribute their family budget. We ended up by saying that every family wants to be a healthy, happy, wealthy and wise family. These things don't just happen. There are lots of things various members of the family can do to become a happy family. Let's find out from the Senas and Bandas, shall we, how this can be done.

Yes, it's time once again to hear from the Banda and Sena family, about themselves. Come along and take your places while I divide the blackboard into two this half for the Banda family, and the other half for the Senas.

Now Mrs. Banda let's say you are going to the Pola (weekend Fair) to buy your weekly provisions for your family. Perhaps you can take young Anil along with you as there are lots

of things you'd want to buy for your large family. Quickly ask your family if there is anything special they would like to eat, and give me your marketing list. Mrs. Sena the same.

Now Mr. Banda tell then please tell me how much money you can give Mrs. Banda to buy with? And Mr. Sena? Mrs. Banda it doesn't look as though you can buy every item on your list with that money. What will you leave out? (There would be a class discussion here on the relative importance of milk for Chuti, the youngest child, and fruit for Mr. B.). Mrs. Sena could add a few luxuries to her list perhaps as she has more money and smaller quantities to buy.

Now we shall think about the health of the Banda and Sena families. Mr. Banda has taken your children to the doctor for injections which prevent illness like cholera and whooping cough?

Mr. Sena is there a dispensary close to your home? Mrs. Banda, if Anil gets a cold might catch that cold? Mrs. Sena if Ranee gets mumps what will you do? (Suggest that children are to be separated and that this would be difficult in the Banda home)

Will each Banda child tell me how they can help their mother in the home? (Look at the younger children, cooking, etc.) And each Sena child how could you help?

Mr. Banda do you send all your children to school? And would you send your children to University? Mr. Sena would you send your children to the University? Everyone think for a little time whether you'd like to belong to the Banda or the Sena family. Put up your hands those who would like to belong to the Banda family. Put up your hands those of you who would like to belong to the Sena family.

(Some sweets or cakes may be brought to class and distributed in the Sena and Banda families to indicate how far a given number will go in each case).

Assignment/
Evaluation:

Finish the drawings you started last time. I hope your scrap books are getting on. We shall be displaying these scrap books at the end-of-term concert and play on Monday Day.

of things you'd want to buy for your large family. Quickly ask your family if there is anything special they would like to eat, and give me your marketing list. Mrs. Sena please do the same.

Now Mr. Banda till then please tell me how much money you can give Mrs. Banda to go marketing with? And Mr. Sena? Mrs. Banda it doesn't look as though you can buy everything on your list with that money. What will you leave out? (There would be a class discussion here on the relative importance of milk for Chuti, the youngest child, and fruit and tobacco for Mr. B.). Mrs. Sena could add a few luxuries to her list perhaps as she seems to have more money and smaller quantities to buy.

Now we shall think about the health of the Banda and Sena families. Mr. Banda have you taken your children to the doctor for injections which prevent illness like cholera and whooping cough?

Mr. Sena is there a dispensary close to your home? Mrs. Banda, if Anil gets a cold who else might catch that cold? Mrs. Sena if Raneer gets mumps what will you do? (Suggest that the children are to be separated and that this would be difficult in the Banda home).

Will each Banda child tell me how they can help their mother in the home? (Looking after the younger children, cooking, etc.) And each Sena child how could you help?

Mr. Banda do you send all your children to school? And would you send your children to a university? Mr. Sena would you send your children to the University? Everyone in the class think for a little time whether you'd like to belong to the Banda or the Sena family. Put up your hands those who would like to belong to the Banda family. Put up your hands those if you who would like to belong to the Sena family.

(Some sweets or cakes may be brought to class and distributed in the Sena and Banda families to indicate how far a given number will go in each case).

Finish the drawings you started last time. I hope your scrap books are getting along well. We shall be displaying these scrap books at the end-of-term concert and play on Parents Day.

*Evaluation
discussion:*

1. *Is a family unit often made up of a single person?*
2. *Do parents have the choice of deciding how many children they would like family?*
3. *Can a large family be more comfortable in a small house than in a large*
4. *Is a family budget shared by all members of the family?*
5. *Are people in large, overcrowded families more likely to fall ill?*
6. *Would parents be wise to plan small families?*
7. *Write 3 sentences to say in your own words how you can be most helpful to of your family.*
8. *If one of the Banda children comes back from school with measles, is it rest of the children will catch it? Why do you think so? (The pupils analyse why there is more likelihood of the children catching measles overcrowding, poor medical facilities, etc.)*
9. *How many children do you think a family should have? Why?*

Other activities:

1. Charts: The activity here could be individual or group work in which pictorially express small and large families, members of the family, their roles e.g. food, house, clothing, and perhaps extend it to villages and towns.
2. Murals: The class forms itself into two or four groups and works on a mural room display giving, say, the Day in the Life of the Banda or Sena family should have actual cut-outs of food, clothes, house design. Children could make cards and presents suitable for each member of the family.
3. Models: Making models of houses for a small and large family to live in. Making clothes for children in a small and large family. Cooking for a small and large family.
4. Songs: Perhaps the music or poetry teacher could be asked to write a song about the roles of the different members of the family. An effective type of song is the verse and chorus type which is popular in Ceylon folk songs. The chorus could be incorporated in the chorus, and the verse could give incidents from the family with perhaps the father, mother, and children singing each verse.

1. *Is a family unit often made up of a single person?*
2. *Do parents have the choice of deciding how many children they would like to have in their family?*
3. *Can a large family be more comfortable in a small house than in a large house?*
4. *Is a family budget shared by all members of the family?*
5. *Are people in large, overcrowded families more likely to fall ill?*
6. *Would parents be wise to plan small families?*
7. *Write 3 sentences to say in your own words how you can be most helpful to other members of your family.*
8. *If one of the Banda children comes back from school with measles, is it likely that the rest of the children will catch it? Why do you think so? (The pupils would have to analyse why there is more likelihood of the children catching measles as related to overcrowding, poor medical facilities, etc.)*
9. *How many children do you think a family should have? Why?*

1. **Charts:** The activity here could be individual or group work in which pupils diagrammatically express small and large families, members of the family, their roles, facilities e.g. food, house, clothing, and perhaps extend it to villages and towns.
2. **Murals:** The class forms itself into two or four groups and works on a mural for classroom display giving, say, the Day in the Life of the Banda or Sena family. The mural should have actual cut-outs of food, clothes, house design. Children could also make cards and presents suitable for each member of the family.
3. **Models:** Making models of houses for a small and large family to live in. Cutting out clothes for children in a small and large family. Cooking for a small and large family.
4. **Songs:** Perhaps the music or poetry teacher could be asked to write a song which gives the roles of the different members of the family. An effective type of song would be the verse and chorus type which is popular in Ceylon folk songs. The basic concept could be incorporated in the chorus, and the verse could give incidents from the life of the family with perhaps the father, mother, and children singing each verse.

5. Films: Perhaps some of the embassies could provide educational films about family life in their countries. There is also a very good Ceylon Government Information Department documentary film on the Ceylon River Valleys Development projects which shows a family in a new settlement, highlighting the role of each member of the family and the growth and development of the family with relation to land and skills, schooling etc. Pupils may be taken to see this film.
6. Interesting little anecdotes are often found in the newspapers of incidents that take place in small and large families. If the teacher collects these in her own album, she could use them to illustrate the lesson with things that are actually taking place in the country and may be the world over: floods in overcrowded areas, large destitute families, refugees ... Also show them pictures of healthy, happy families.
7. Background information can be got in libraries, e.g. British Council and USIS where there are other teaching guides on this specific subject. Colombo Plan can help. It might be a good idea to take the children along to a library to introduce them to the idea of finding information for themselves.
8. The subject could be suggested for a one-day seminar of the Parents/Teachers' Association.

Type of instructional material: Teachers' Guide + Pupils' Text (Story)

Subject: Social studies (Unit: Family)

Age group/level: Primary (Middle)

Introduction: This story was written to show the disadvantages of a large family and advantages of a small family. Although the emphasis is on the economic aspects, the teacher should make it clear by discussion that there are many other factors involved.

Objectives: To help the learners initiate investigations on the advantages and disadvantages of small and large families in order to understand: the relationship between the family and the preservation of health of the mother and welfare of the children; the relationship between family size and quality of life - the effect of family size on clothing, health, sanitation, savings, inter-personal relationships; that these factors can be controlled.

Procedures: There are many ways of teaching this story. The teacher, keeping in mind the needs of the pupils, is the best judge to choose the method. Here are some suggestions:

1. The teacher tells the pupils to read the story (or herself reads the story to the class) and then divides the class into two groups. One group may list the advantages of a small family and the other group may list the disadvantages of a large family. Then the teacher may bring both groups together and share their findings. The teacher may ask them whether these points are clear in the story or not. The teacher may also discuss the disadvantages of a small family and the advantages of a large family and compare them with the advantages of a small and the disadvantages of a large family.
2. The pupils may dramatize the story, and then the teacher may discuss the story.
3. Have discussions with the pupils and ask them key questions. Some of the discussion questions are: *What happens if there is a piece of land, which is a family is large and it is going to be divided among the children? Do you have anything about it or not?; What happens if the land is to be divided among the children in a small family?; What are some of the main problems of a large family?; What are some advantages of a large family?; What are some of the advantages of a small family?; What might have happened if Hassan had married a girl from a large family?*

Instructional material: Teachers' Guide + Pupils' Text (Story)

Subject studies (Unit: Family)

Level: Primary (Middle)

This story was written to show the disadvantages of a large family and advantages of a small family. Although the emphasis is on the economic aspects, the teacher should make it clear by discussion that there are many other factors involved.

To help the learners initiate investigations on the advantages and disadvantages of small and large families in order to understand: the relationship between the size of the family and the preservation of health of the mother and welfare of the children; the relationship between family size and quality of life - the effect of family size on nutrition, clothing, health, sanitation, savings, inter-personal relationships; that family size can be controlled.

There are many ways of teaching this story. The teacher, keeping in mind the objectives, is the best judge to choose the method. Here are some suggestions:

1. The teacher tells the pupils to read the story (or herself reads the story to the class) and then divides the class into two groups. One group may list the advantages of a small family and the other group may list the disadvantages of a large family. Then the teacher may bring both groups together and share their findings. The teacher may ask them whether these points are clear in the story or not. They may also discuss the disadvantages of a small family and the advantages of a large family, and compare them with the advantages of a small and the disadvantages of a large family.
2. The pupils may dramatize the story, and then the teacher may discuss this with them.
3. Have discussions with the pupils and ask them key questions. Some of the possible discussion questions are: *What happens if there is a piece of land, the size of the family is large and it is going to be divided among the children? Does this story say anything about it or not?; What happens if the land is to be divided among the children in a small family?; What are some of the main problems of a large family? What are some advantages of a large family?; What are some of the advantages and disadvantages of a small family?; What might have happened if Hassan had married later and*

spaced his children?; Why do you think Akram delayed his marriage and spaced his children? How and from where do you think he learned that this would be beneficial? How do you think small and a large family size effects the population of a community, a country, and even the world. Relate this statement to Hassan and Akram's families.

Hassan and Akram

In Kanam, one of the villages in Konduz Province of Afghanistan, there lived a man named Haider. He had two sons and six daughters. He made more than enough to support his family. When he died, his large property was divided among his children. The daughters received their shares, married and lived with their husbands. In accordance with the law, each son received twice the share of the daughters.

The names of Haider's sons were Hassan and Akram. Hassan was 22 and Akram was 21 years old when their father died. Each of them received 30 Jeribs (about 15 acres) of land, plus a house with two rooms and a jerib. Their land and houses were in two different villages, far from each other. Their land had the same productivity.

Neither brother married for some years. They saved some money and each bought a radio and a television. But their interests in radio programmes were quite different. Hassan was always fond of popular music while Akram usually turned to news programmes, dialogues, and health and home management programmes.

The educational background of the two brothers was the same. They had not gone to school, but studied with the Mulla (a Muslim priest). They could read, and their interests in reading also were the same. Hassan was fond of reading only short novels while Akram read magazines, newspapers and booklets on agriculture, as well.

When Hassan was 25 he fell in love with a beautiful girl and was married. The couple had a son one year after their marriage. According to the custom, they gave a big party called a Shab-e-Bar. They invited all their friends and relatives who gave many gifts to the new-born child. Hassan also gave presents to many of the guests. Hassan's brother Akram was among the guests. Hassan was very close with his family. He bought a cow in order to have milk. Whenever he returned from his fields he brought his yard with his wife cultivating vegetables for family consumption.

spaced his children?; Why do you think Akram delayed his marriage and spaced his children? How and from where do you think he learned that this would be beneficial?; A small and a large family size effects the population of a community, a country and even the world. Relate this statement to Hassan and Akram's families.

Hassan and Akram

of the villages in Konduz Province of Afghanistan, there lived a man named Haider. He had three daughters. He made more than enough to support his family. When he died, his property was divided among his children. The daughters received their shares, married and went off to their homes. In accordance with the law, each son received twice the share of the daughters.

Haider's sons were Hassan and Akram. Hassan was 22 and Akram was 21 years old when their father died. Each of them received 30 Jeribs (about 15 acres) of land, plus a house with two rooms on half an acre. Their lands and houses were in two different villages, far from each other. Their lands had almost equal fertility.

Hassan was married for some years. They saved some money and each bought a radio and some furniture. Their interests in radio programmes were quite different. Hassan was always fond of listening to news programmes. Akram usually turned to news programmes, dialogues, and health and home management programmes.

The social background of the two brothers was the same. They had not gone to school, but had a religious teacher, a Mulla (a Muslim priest). They could read, and their interests in reading also differed. Hassan read only short novels while Akram read magazines, newspapers and booklets dealing with various subjects as well.

When Hassan was 25 he fell in love with a beautiful girl and was married. The couple had their first child. According to the custom, they gave a big party called a Shabi-Shash. Many of their friends and relatives who gave many gifts to the new-born child. Hassan and his wife were the hosts of many of the guests. Hassan's brother Akram was among the guests. Hassan was very happy. He bought a cow in order to have milk. Whenever he returned from his fields he worked in his garden. He spent his life cultivating vegetables for family consumption.

The next year they had another son. Therefore they had another Shabi-Shash party. His wife was happy. Their third child was the daughter they had been longing for. Now there they needed another room for the children. Therefore Hassan added two more rooms to his house. They were living quite comfortably. Their income was sufficient to support the family. Their expenditure were estimated as follows:

Estimated income	50,000	Afghanis (Afs) each year
Dividing equally	$\frac{50,000}{5}$	= 10,000 Afs. per person

Of course the expenditure of each individual differed, but the family could save some. Their savings were greater when they only had one child, but later when they had more children it decreased.

The parents were hoping that when their children grew older they could send them to school for good education. The parents bought gifts and new clothes for them each Eid (a major Muslim festival).

Akram waited to marry until he reached the age of 28. He planned to save more money. He found a beautiful girl and was soon married. He invited his friends and relatives to his wedding. Akram and his wife with their 3 children wore their pretty clothes and brought some gifts for the guests. Akram also gave some gifts to his brother's children.

By the time Hassan had his 5th child a school was opened in his village. He wanted to send his first child to school, but the family was large and his income was not sufficient to support them, so he changed his mind and asked his eldest son to help him in the field and to help his mother. His wife was becoming weaker because she had given birth to 5 children and another was coming. She gave birth to the sixth child she became sick. Her sixth child was very weak and his mother could not care of him very well. He died after a few days. Her two youngest children were also sick. Hassan did not have enough money to support his family. Therefore he had to borrow some to save the lives of his children, but it seemed that whenever one was recovering the other was becoming sick. Mainly because they did not have good nourishing food, a sanitary home, or enough money to pay the doctor. Life became very difficult for them. Finally Hassan had to sell half of his land and his house to pay his loan and spent the rest on food and medicine.

year they had another son. Therefore they had another Shabi-Shash party. Both husband and wife. Their third child was the daughter they had been longing for. Now there were five and another room for the children. Therefore Hassan added two more rooms to his house. They still ate comfortably. Their income was sufficient to support the family. Their income and expenditure estimated as follows:

Estimated income	50,000	Afghanis (Afs) each year
Dividing equally	$\frac{50,000}{5} = 10,000$	Afs. per person

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parents were hoping that when their children grew older they could send them to school to obtain a education. The parents bought gifts and new clothes for them each Eid (a major Muslim festival holiday).

Hassan wanted to marry until he reached the age of 28. He planned to save more money. Finally he met a girl and was soon married. He invited his friends and relatives to his wedding party. Hassan and his wife with their 3 children wore their pretty clothes and brought some gifts for the bride and groom. Hassan also brought some gifts to his brother's children.

When Hassan had his 5th child a school was opened in his village. He wanted very much to send his children to school, but the family was large and his income was not sufficient to support his family; he thought of this in his mind and asked his eldest son to help him in the field and to help his mother at home. His mother was becoming weaker because she had given birth to 5 children and another was coming. When she gave birth to the sixth child she became sick. Her sixth child was very weak and his mother could not take care of him very well. He died after a few days. Her two youngest children were also sick. Hassan did not have enough money to support his family. Therefore he had to borrow some to save the life of his wife and child. It seemed that whenever one was recovering the other was becoming sick. Mainly this was because they did not have good nourishing food, a sanitary home, or enough money to pay the medical expenses. It was very difficult for them. Finally Hassan had to sell half of his land and his cow. He paid back the loan and spent the rest on food and medicine.

After having her seventh baby his wife became very weak and sickly. She lost her strength. Hassan always seemed to be borrowing money and spending it on his wife and children; there were or two sick. He spent most of his time with his children taking care of them.

Now there were eight in his family but only half of his original income since he had sold land. His income was 25,000 Afs.

This 25,000 Afs. was supporting 8 people in the family

$$\frac{(25,000)}{8} = 3,111$$

This amount of money was less than 1/3 of what each had been getting when there were only his family.

Life became very hard for him because of the sick persons in the family. His youngest child was born a few weeks before his wife gave birth to the eighth child. As the mother was very weak and sick, she died at the age of 33. Her new-born child also died after just a few days. Hassan sold the rest of his land. He paid his loan back and spent the remainder for the funeral. Now he did not have anything; he himself became sick.

His brother Akram who had only 3 children in ten years enjoyed a comfortable life. They had a good income. The parents and children were happy and healthy. Two of their children were in school. One of them was a very good student in class; the other was average.

They built a new good-looking house. They arranged their new house very well. They had many conveniences in the house. They had a beautiful garden.

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Type of instructional material: Pupils' Text + Teachers' Guide

Subject: Social studies (Unit: Family and Community)

Age group/level: Primary (Upper)

Family Size and Family Welfare

Introduction:

These materials are presented in the form of a four-act play which is called "Family Play". The play is based on a rural Malaysian scene. The materials are provided in conjunction with the Teachers' Guide provided.

The story: Mr. Ali (the Big Family of father, mother and 8 children) and the Small Family of father, mother and 3 children) are neighbours, living in quarters provided by their employer, the rubber estate owner. They both work on the estate as rubber tappers and each earn about M.\$5 a day (depending on the price of rubber).

The Acts. The four Acts relate to four incidents in the lives of these two families. The four incidents deal with the four aspects dealt with under the topic 'Family Size', i.e. food, clothing, shelter, living space and recreation. The Acts are performed separately and used as a basis for a class discussion so that the pupils can 'discover' the relevant concepts regarding family welfare and family size.

The stage: The stage is the front of the classroom which is divided into two parts. The apartment for the 'Big Family' is on the left and the apartment for the 'Small Family' is on the right.

The Two-Family Play

Act I Scene (a): Dinner time. Kitchen-living room. The mother is cooking in the kitchen and the children are playing noisily in the congested room.

Mother : (Pausing in her cooking, brushing back her hair) Now children, stop all this noise. (1st child) look after your brother (7th child). See why he is crying.

Additional material: Pupils' Text + Teachers' Guide
1 studies (Unit: Family and Community)
: Primary (Upper)

Family Size and Family Welfare

These materials are presented in the form of a four-act play which is entitled "The Two-Family Play". The play is based on a rural Malaysian scene. The material is to be used in conjunction with the Teachers' Guide provided.

The story: Mr. Ali (the Big Family of father, mother and 8 children) and Mr. Ahmad (the Small Family of father, mother and 3 children) are neighbours, living in similar 2-room quarters provided by their employer, the rubber estate owner. They both work on a rubber estate as rubber tappers and each earn about M.\$5 a day (depending on the price of rubber).

The Acts. The four Acts relate to four incidents in the lives of these two families. These four incidents deal with the four aspects dealt with under the topic 'Family Welfare and Family Size', i.e. food, clothing, shelter, living space and recreation. Each Act is to be performed separately and used as a basis for a class discussion so that the pupils may 'discover' the relevant concepts regarding family welfare and family size.

The stage: The stage is the front of the classroom which is divided into two parts so that the apartment for the 'Big Family' is on the left and the apartment for the 'Small Family' is on the right.

The Two-Family Play

: Dinner time. Kitchen-living room. The mother is cooking in the kitchen while the 8 children are playing noisily in the congested room.

: (Pausing in her cooking, brushing back her hair) Now children, stop all that noise. Zafar (1st child) look after your brother (7th child). See why he is crying.

- 3rd child : Mother, I am hungry. When is father coming back?
- 5th child : Mother! Latif beat me! Ayub, stop biting my toe!
(Footsteps on the stairs - door opens).
- Children : Father is home! (All run up to him and surround him).
- Father : (Walking in holding a heavy bag of rice in one hand, a parcel, and a bunch in the other). Quiet, sit down children. Mother, here is the rice and fish, here are some bananas. Don't grab! You all have to share the bananas. See that two of you share each banana.
- 5th child : Father, why did you buy only 5 bananas?
- Father : (sadly) That's all I can afford after buying the 10 gantang of rice and the time when I've more money, I'll buy more.
(While the children peel and share the bananas, father walks over to Mother and her half of the bananas).
- Father : Mother, are you tired? (looks into the pot).
- Mother : Not really. How much did the rice cost today? What did you buy for the children?
- Father : 10 gantangs of rice and 2 katis of fish. They are expensive nowadays. So we seem to be buying food that the prices have been going up day-by-day.
- Mother : In our family of 10, the 2 katis of fish can last us only one day and the rice five days. We seem to be spending so much on food and yet the children are hungry all the time.
- Father : Yes, having 8 children to feed needs a lot of food. Today I could only afford 2 katis of the cheapest fish and a little vegetables. Really, too much of our money goes to the buying of food. We can't even afford to buy some beef for the festival.
- Mother : I understand from the nurses at the Health Clinic that children should drink milk and eat more of such food as eggs, meat and vegetables. But we just can't afford to buy all that. We have to buy so much rice!
- Father : I don't know how I can earn any more money, with the price of rubber as low as it is. Maybe our eldest son should leave school and help us with tapping rubber.

: Mother, I am hungry. When is father coming back?

: Mother! Latif beat me! Ayub, stop biting my toe!

(Footsteps on the stairs - door opens).

: Father is home! (All run up to him and surround him).

: (Walking in holding a heavy bag of rice in one hand, a parcel, and a bunch of 5 bananas in the other). Quiet, sit down children. Mother, here is the rice and fish. Now children, here are some bananas. Don't grab! You all have to share the bananas. Anah, see that two of you share each banana.

: Father, why did you buy only 5 bananas?

: (sadly) That's all I can afford after buying the 10 gantang of rice and the fish. Next time when I've more money, I'll buy more.

(While the children peel and share the bananas, father walks over to Mother and gives her half of the bananas).

: Mother, are you tired? (looks into the pot).

: Not really. How much did the rice cost today? What did you buy for the curry?

: 10 gantangs of rice and 2 katis of fish. They are expensive nowadays. So many people seem to be buying food that the prices have been going up day-by-day.

: In our family of 10, the 2 katis of fish can last us only one day and the 10 gantangs of rice five days. We seem to be spending so much on food and yet the children are hungry all the time.

: Yes, having 8 children to feed needs a lot of food. Today I could only afford to buy 2 katis of the cheapest fish and a little vegetables. Really, too much of what I can earn goes to the buying of food. We can't even afford to buy some beef for tomorrow's festival.

: I understand from the nurses at the Health Clinic that children should drink a lot of milk and eat more of such food as eggs, meat and vegetables. But we just can't afford to buy all that. We have to buy so much rice!

: I don't know how I can earn any more money, with the price of rubber as low as it is. Maybe our eldest son should leave school and help us with tapping rubber.

- Mother : No father. He must continue with his studies so that he can have a better job of his own later. I'll try to plant some fruits and vegetables in the garden and get some chickens and hens for eggs. Today our hens laid 4 eggs. We can cook them for the children. Maybe we can kill one of the hens tomorrow.
- Father : Oh, no - if we kill one of the hens, then we'll have fewer eggs. Let me show you in the garden. Mother, I think you and I should go to the Health Centre and see the nurse about not having any more children because we cannot afford such a large family.
- Mother : Yes, father, we'll go day after tomorrow. Now children, dinner is ready.

Curtain

- Act I Scene (b) : Dinner time. Kitchen-living room. Mother is cooking in the kitchen while the children are studying at the dinner table and the youngest child is playing with the blocks.
- Mother : (looking up from her cooking) Children, are you hungry?
- 1st child : Not very, mother. When is father coming home?
- Father : (opens the door, walks in, one hand with a bag of rice and the other with a bunch of bananas and several packets) I'm home.
- Children : Father, father, anything for me to eat?
- Father : Yes, quiet now. Here is a banana each for you and a sweet too. Mokten for you mother and these packets too.
- Mother : What did you buy today?
- Father : I bought 5 gantang of rice, 1 kati of fish, and a kati of beef and some other things for tomorrow's festival. (Walks over to where mother is cooking). What are you cooking for dinner?
- Mother : Egg curry, mutton soup and some vegetable.
- Father : We're fortunate because we don't have to buy so much food as our neighbours. You know growing children need a lot of food to grow up.
- Mother : So do ours! But with only 3 children to feed it is not so difficult. I will follow the advice of the nurse at the Health Centre. I can feed the children with the type of food which she said will build their body and make them healthy.

- : No father. He must continue with his studies so that he can have a better life of his own later. I'll try to plant some fruits and vegetables in the garden and rear more hens for eggs. Today our hens laid 4 eggs. We can cook them for the festival tomorrow. Maybe we can kill one of the hens tomorrow.
- : Oh, no - if we kill one of the hens, then we'll have fewer eggs. Let the children help you in the garden. Mother, I think you and I should go to the Health Clinic to see the nurse about not having any more children because we cannot afford such a big family.
- : Yes, father, we'll go day after tomorrow. Now children, dinner is ready.

Curtain

- : Dinner time. Kitchen-living room. Mother is cooking in the kitchen while the 2 elder children are studying at the dinner table and the youngest child is playing in a corner.
- : (looking up from her cooking) Children, are you hungry?
- : Not very, mother. When is father coming home?
- : (opens the door, walks in, one hand with a bag of rice and the other with a bunch of 5 bananas and several packets) I'm home.
- : Father, father, anything for me to eat?
- : Yes, quiet now. Here is a banana each for you and a sweet too. Mokter, give this banana to your mother and these packets too.
- : What did you buy today?
- : I bought 5 gantangs of rice, 1 kati of fish, and a kati of beef and some vegetables for tomorrow's festival. (Walks over to where mother is cooking). What are you cooking for dinner?
- : Egg curry, mutton soup and some vegetable.
- : We're fortunate because we don't have to buy so much food as our neighbour Ali. He has 8 children. You know growing children need a lot of food to grow up.
- : So do ours! But with only 3 children to feed it is not so difficult. I find that I can follow the advice of the nurse at the Health Centre. I can feed the children with the type of food which she said will build their body and make them healthy because I don't

have to cook for so many people. The nurse said that good nutritious food is expensive. Much of it can be grown in our garden quite easily.

- Father : Yes, you're right. How are our bean plants growing? Did our hens lay any eggs today?
- Mother : The beans are coming fine. The papaya tree is at last beginning to bear fruit. The hens laid 4 eggs today.
- Father : Are you going to give us a feed tomorrow?
- Mother : (Smiles and begin to lay the table). We'll see. Children, time to eat.

Curtain

Note: Refer to Teacher's Guide for follow-up class activities.

The Two-Family Play

- Act II. : After dinner at about 8.00 p.m. Mr. Ali's living room. Mother is busy mending clothes. The younger children (5th to 8th child) are playing around noisily while the older children try half-heartedly to study, being distracted by the playing. Father sharpens his tapping knife.
- Mother : (looks up from her sewing) Father, you don't have to sharpen your knife tomorrow. It won't be tapping tomorrow.
- Father : Yes, tomorrow is festival day. Now what shall we do?
- Zafar
(1st child) : I know, I know, let's go to the fair.
- Rest of
children : Yes, the fair, the fair.
- Anah
(2nd child) : Mother, what can we wear for the fair?

have to cook for so many people. The nurse said that good nutritious food need not be expensive. Much of it can be grown in our garden quite easily.

Yes, you're right. How are our bean plants growing? Did our hens lay any eggs today?

The beans are coming fine. The papaya tree is at last beginning to bear fruit. Our hens laid 4 eggs today.

Are you going to give us a feed tomorrow?

(Smiles and begin to lay the table). We'll see. Children, time to eat.

Curtain

Note: Refer to Teacher's Guide for follow-up class activities.

The Two-Family Play

After dinner at about 8.00 p.m. Mr. Ali's living room. Mother is busy mending and sewing. The younger children (5th to 8th child) are playing around noisily while the 4 older children try half-heartedly to study, being distracted by the playing. Father sharpens his tapping knife.

(looks up from her sewing) Father, you don't have to sharpen your knife tonight. You won't be tapping tomorrow.

Yes, tomorrow is festival day. Now what shall we do?

I know, I know, let's go to the fair.

Yes, the fair, the fair.

Mother, what can we wear for the fair?

Mother : (drops her sewing) Let's see.

Zafar : Mother, can I wear my new shirt?

Mother : Yes, Zafar. Ghazali (3rd child) can wear Zafar's last year's shirt and you can wear the dress I made from your Aunty's sarong kabaya.

Ghazali : But mother, can't I go in my school uniform? It's still new.
(3rd child)

Zafar : You silly boy. You can't. That's for going to school and not to the f

Ghazali : (sulking) But I like my school uniform. I don't like your old shirt a
are too big for me. I wish I could have enough clothes like my friend

Father : Ghazali! That's not the way to talk. You know we cannot afford to buy
many dresses. I have to pay fees to buy books for so many of you. You
more clothes of his own because there are fewer of them in the family w
big family. Besides your mother does not have the time to sew so many
(The 4 younger children go back to their game while the 4 elder children
but Latif soon leaves the room).

Anah : (reads aloud from her book).

Zafar : Anah you're making too much noise. (Sherifah and Ahtar fight and Ahtar
keep quiet too.

Father : (looks harassed) Where is Latif?

Anah : Call him back. He should be studying his lesson. (Anah goes out and b

Father : Why did you go out?

Latif : It's too noisy and hot inside. I can't study with all that noise.

Father : (angrily). You are a naughty boy. Now all of you go to bed. (The chi
grudgingly leave).

Father : (moves over to sit beside mother, sighs): Every night we seem to have
in this room. This house is too small for us. We have only 2 bedrooms
filled to capacity! There is no place for them to study or play
You must be too.

: (drops her sewing) Let's see.

: Mother, can I wear my new shirt?

: Yes, Zafar. Ghazali (3rd child) can wear Zafar's last year's shirt and shorts. Anah, you can wear the dress I made from your Aunty's sarong kabaya.

: But mother, can't I go in my school uniform? It's still new.

ld)

: You silly boy. You can't. That's for going to school and not to the fair.

: (sulking) But I like my school uniform. I don't like your old shirt and shorts. They are too big for me. I wish I could have enough clothes like my friend Mohtar, next door.

: Ghazali! That's not the way to talk. You know we cannot afford to buy cloth for so many dresses. I have to pay fees to buy books for so many of you. Your friend can have more clothes of his own because there are fewer of them in the family while ours is a big family. Besides your mother does not have the time to sew so many dresses.

(The 4 younger children go back to their game while the 4 elder children try to study, but Latif soon leaves the room).

: (reads aloud from her book).

: Anah you're making too much noise. (Sherifah and Ahtar fight and Ahtar cries) Ahtar you keep quiet too.

: (looks harassed) Where is Latif?

: Call him back. He should be studying his lesson. (Anah goes out and brings back Latif),

: Why did you go out?

: It's too noisy and hot inside. I can't study with all that noise.

: (angrily). You are a naughty boy. Now all of you go to bed. (The children grumble and grudgingly leave).

: (moves over to sit beside mother, sighs): Every night we seem to have such a commotion in this room. This house is too small for us. We have only 2 bedrooms and they are filled to capacity! There is no place for them to study or play I'm tired. You must be too.

- Mother : (tired but tries to be cheerful): Yes, I'm tired but I still have so much more sewing to do.
- Father : Now that 4 of our children are going to school we have to spend more and more on their uniforms and shoes. I wish I could give them a new dress for the festival but we can't afford to buy so many.
- Mother : (sympathetically) I know. We'll try to manage. I'll alter the same dresses for the younger ones.
- Father : Grandfather said that we must have many children. Unlike the old days when there were many hands on the sawal (farm) nowadays it is difficult and takes a long time to bring up even a small family. We must study the family planning pamphlet carefully. We cannot have any more children.

Curtain

The Two-Family Play

- Act III : After dinner in Mr. Ahmad's living room. Mother is knitting while the father and the two sons study. A generally quiet and orderly atmosphere. The youngest child is playing with some crayons.
- Father : Mohtar, what homework did your teacher give you today?
- Mohtar : He gave me sums to do. But father, I don't know how to do this one. Can you help me?
- Father : Let me see. Yes. Suppose I ask you
(Mohtar follows and solves the problem).
- Malek
(2nd child) : Father, father my teacher gave me "very good" for my handwriting. See.
- Father : (looks and smiles) Very good Malek. Let's see what Malinal is doing. Malinal is here.
- Malinal
(3rd child) : Papa, see my picture. Many flowers. Papa is here and mummy is here.

- : (tired but tries to be cheerful): Yes, I'm tired but I still have so much mending and sewing to do.
- : Now that 4 of our children are going to school we have to spend more and more on clothes - their uniforms and shoes. I wish I could give them a new dress for the festival but I can't afford to buy so many.
- : (sympathetically) I know. We'll try to manage. I'll alter the same dresses for the younger ones.
- : Grandfather said that we must have many children. Unlike the old days when more children meant more hands on the sawal (farm) nowadays it is difficult and takes a lot of money to bring up even a small family. We must study the family planning pamphlet more carefully. We cannot have any more children.

Curtain

The Two-Family Play

- : After dinner in Mr. Ahmad's living room. Mother is knitting while the father is watching the two sons study. A generally quiet and orderly atmosphere. The youngest child is playing with some crayons.
- : Mohtar, what homework did your teacher give you today?
- : He gave me sums to do. But father, I don't know how to do this one. Can you show me?
- : Let me see. Yes. Suppose I ask you
- (Mohtar follows and solves the problem).
- : Father, father my teacher gave me "very good" for my handwriting. See.
- : (looks and smiles) Very good Malek. Let's see what Malinal is doing. Malinal, come here.
- : Papa, see my picture. Many flowers. Papa is here and mummy is here.

Mother : She asked me to show her how to draw you this morning.

Mohtar : Mother, next Saturday will be my school's sports day. My teacher ask something for the refreshment.

Mother : What would you like to take?

Father : Maybe mother can make some banana cakes for you.

Mohtar : Mother, my teacher wants me to wear red shorts on sports day. Can yo

Mother : Yes, have you completed your homework? Well, off to bed.

Father : (after the children have gone to bed) Children seem to need many thi school. With 3 children we can just about manage and we'll be able t school till the school certificate. I wonder how our friends Mr. Ali with so many children in the family. I am very glad we took the advi the Family Planning Clinic.

Curtain

Act IV : Village coffee shop in the late afternoon. Sitting round a table are Mr. Yusel (the village chief), Mr. Ah Chong, (the coffee shop owner) and a tired government servant).

Ah Chong : Ali, you're a lucky man to have so many children.

Ali (sighs) : Lucky? Maybe. But it is very difficult to bring up such a large number. I don't know how I can send them all to school. With what I earn I can't

Samy : How many of your children are schooling?

Ali : Four now and one more every year. I can't afford to buy all their text books.

Ahmad : Yes, the cost of schooling is high. I find it hard even to send 2 children to school.

Ah Chong : I heard that another school will be built near here soon.

Samy : I heard that too. The government is finding it difficult to select a site for the school. All the suitable land has been occupied by housing estates.

- : She asked me to show her how to draw you this morning.
- : Mother, next Saturday will be my school's sports day. My teacher asked me to bring something for the refreshment.
- : What would you like to take?
- : Maybe mother can make some banana cakes for you.
- : Mother, my teacher wants me to wear red shorts on sports day. Can you sew one for me?
- : Yes, have you completed your homework? Well, off to bed.
- : (after the children have gone to bed) Children seem to need many things when they go to school. With 3 children we can just about manage and we'll be able to keep them in school till the school certificate. I wonder how our friends Mr. Ali and wife manage with so many children in the family. I am very glad we took the advice of the doctor at the Family Planning Clinic.

Curtain

- : Village coffee shop in the late afternoon. Sitting round a table are Mr. Ali, Mr. Ahmad, Mr. Yusel (the village chief), Mr. Ah Chong, (the coffee shop owner) and Mr. Samy (a retired government servant).
- : Ali, you're a lucky man to have so many children.
- ns) : Lucky? Maybe. But it is very difficult to bring up such a large number of children. I don't know how I can send them all to school. With what I earn I can barely feed them.
- : How many of your children are schooling?
- : Four now and one more every year. I can't afford to buy all their textbooks.
- : Yes, the cost of schooling is high. I find it hard even to send 2 children to school.
- : I heard that another school will be built near here soon.
- : I heard that too. The government is finding it difficult to select a suitable site for the school. All the suitable land has been occupied by housing estates. The number of

- people in this village has increased many times since the war.
- Yusef : I remember before the war this was a small village, now we have 3 schools!
- Ahmad : I understand a number of our young boys have left the village for the nearby look for jobs.
- Ali : My nephew left the village 3 months ago but he is still without a job. With Standard VI qualification I think it is not easy to get a job.
- Yusef : At the civics course held for village headmen, I was told that in this country of the people are below 15 years of age.
- Ali : That many!
- Yusef : Yes. And there are about 1.5 million pupils in primary schools.
- Ah Chong : My son told me that in his class in school there are 50 pupils studying in one room. Samy, remember, in our days we had only 20 in the class.
- Samy : I think our country is facing many problems because of the rapid increase of population.
- Yusef : Yes. In Malaysia now there are about 10 million people and it seems that there will be 25 million in the year 2000, that is when your son, who is in school now, will be his father himself.
- Ah Chong : That would mean that more food will have to be produced, more schools and houses will have to be built and more jobs for the people.
- Ali : Do you think we'll have enough of food for everybody? Enough houses and jobs?
- Yusef : I don't know. But I understand that we must do something to slow down the increase of people in this country so that we can provide for all the facilities.
- Ali : I don't think I can help. I've eight children already!
(Others laugh)
- Ahmad : But Ali you can help. Don't have any more.
(Others laugh again)
- Ali : Why has there been such a big increase after the war?

people in this village has increased many times since the war.

I remember before the war this was a small village, now we have 3 schools!

I understand a number of our young boys have left the village for the nearby towns to look for jobs.

My nephew left the village 3 months ago but he is still without a job. With only a Standard VI qualification I think it is not easy to get a job.

At the civics course held for village headmen, I was told that in this country about 47% of the people are below 15 years of age.

That many!

Yes. And there are about 1.5 million pupils in primary schools.

My son told me that in his class in school there are 50 pupils studying in one classroom. Samy, remember, in our days we had only 20 in the class.

I think our country is facing many problems because of the rapid increase of people.

Yes. In Malaysia now there are about 10 million people and it seems that the number will be 25 million in the year 2000, that is when your son, who is in school now, becomes a father himself.

That would mean that more food will have to be produced, more schools and houses to be built and more jobs for the people.

Do you think we'll have enough of food for everybody? Enough houses and jobs?

I don't know. But I understand that we must do something to slow down the increase of people in this country so that we can provide for all the facilities.

I don't think I can help. I've eight children already!

(Others laugh)

But Ali you can help. Don't have any more.

(Others laugh again)

Why has there been such a big increase after the war?

- Samy : You see, before the war people gave birth to many children but because of the lack of health and medical facilities many of the children died very young so that the number reaching adulthood was not large. But in the last 10 to 25 years health and medical facilities have been improved so that very few children die. Moreover with the improvement in health and medical facilities people now live longer than before.
- Ah Chong : What can we do now?
- Yusef : What we must do now is for parents not to have many children. In this way we can give our children the best education and can look after them well.
- Ali : How many children must we have then?
- Ahmad : That's difficult to say. My doctor said I can have as many as I can look after well. I think I can only look after 3 well.
- Yusef : Yes, even two healthy children in a family is better than many unhealthy ones.
- Ali : How can you make sure to have only a certain number and not more?
- Yusef : I think the family planning clinic near our village can help you plan your family.
- Ali : Do I have to pay any fees to see the doctor at the clinic?
- Yusef : No. It is all part of the services provided by the National Family Planning Board.
- Samy : Well, I think it's time we go home. Goodbye everybody.

Curtain

Content	Teachers' Guide	Pupils' Activities
<p>1. Foods - a basic daily necessity.</p> <p>a) a sufficient quantity of food daily for each member of the family is desirable. Insufficient quantity of food leads to unsatisfied desire for food, tiredness and ill health.</p> <p>b) The quality of food eaten is also important for good health. Protein, which is essential for growth, tends to be dearer. Tendency is for a large family to neglect this important item in their diet.</p> <p>c) The amount of food to be obtained for the family depends on the size of the family: the smaller the family the less the amount to be provided for.</p>	<p>1. The concepts to be taught under this unit are contained in Act 1 (a) and (b) of the Two-Family Play.</p> <p>2. It is suggested that the teacher arrange for members of the class to perform Act 1 (a) and (b) as shown. Pupils need not learn their lines by heart. They may read from the script.</p> <p>3. After the play has been performed, teacher is to promote class discussion to enable the children to 'discover' the relevant concepts and develop the desired understandings and attitudes.</p> <p>4. Class discussion may be carried out as follows: pupils to be asked to narrate in their own words the stories as depicted in Act 1 (a) and (b); teacher to help pupils compare the food situations in the two families, bringing out an understanding of facts and relationship shown in the 'content' column.</p> <p>5. The teacher may ask and assist in working out the amount the two families spent on food, bearing in mind that the two</p>	<p>1. Selected pupils to act</p> <p>2. Pupils make oral or written reports of the play.</p> <p>3. Pupils to discuss and the problems of food in family.</p> <p>4. Pupils to narrate in their own words and list in their own words the differences.</p> <p>5. Pupils to work out cost (with price lists and estimated quantity expected consumed supplied by the</p>

	Teachers' Guide	Pupils' Activities
<p>ily necessity. quantity of food member of the able. In- tity of food sified desire ness and ill</p> <p>food eaten is for good health is essential ds to be dearer a large family important item</p> <p>ood to be ob- family depends he family: family the to be provi-</p>	<ol style="list-style-type: none"> 1. The concepts to be taught under this unit are contained in Act 1 (a) and (b) of the Two-Family Play. 2. It is suggested that the teacher arrange for members of the class to perform Act 1 (a) and (b) as shown. Pupils need not learn their lines by heart. They may read from the script. 3. After the play has been performed, teacher is to promote class discussion to enable the children to 'discover' the relevant concepts and develop the desired understandings and attitudes. 4. Class discussion may be carried out as follows: pupils to be asked to narrate in their own words the stories as depicted in Act 1 (a) and (b); teacher to help pupils compare the food situations in the two families, bringing out an understanding of facts and relationship shown in the 'content' column. 5. The teacher may ask and assist in working out the amount the two families spent on food, bearing in mind that the two 	<ol style="list-style-type: none"> 1. Selected pupils to act in play. 2. Pupils make oral or written reports of the play. 3. Pupils to discuss and locate the problems of food in Ali's family. 4. Pupils to narrate in their own words and list in their notebooks the differences. 5. Pupils to work out cost of food (with price lists and the estimated quantity expected to be consumed supplied by the teacher).

Content	Teachers' Guide	Pupils'
	<p>men have similar incomes - to work out the proportion of their income spent on food.</p> <p>6. Show that both fathers love their families, lead pupils to see why Ahmad is more able to provide for his family.</p> <p>7. Briefly lead pupils to find out what Ali and his wife intend to do about the size of their family.</p>	<p>Pupils to work out the proportion of income spent on food for their families.</p> <p>6. Pupils to suggest ways in which Ahmad can provide for his family.</p> <p>7. Discussion of the facilities Ahmad had planned for his family.</p>
<p><u>Lesson 2:</u></p> <p>2. <u>Clothing</u></p> <p>a) Adequate clothing is needed for protection and appearance.</p> <p>b) More members in the family will require a greater outlay for clothes.</p> <p>3. <u>Housing and Living Space</u></p> <p>a) For healthy living there is a need for sufficient space for rest, living and privacy - adequate facilities such as toilet, air space and ventilation.</p>	<p>1. Select pupils to perform Act II and instruct the rest of the class to jot down the problems faced by Mr. Ali and his family in terms of: clothing, living space, and peaceful living.</p> <p>2. Teacher to lead discussion by pupils on the points jotted down by them as well as on their recollection of the play.</p> <p>3. Teacher to list, with pupils' assistance, the disadvantages of a big family, in terms of clothing and household facilities.</p>	<p>1. Pupils perform the play and jot down the problems faced by Mr. Ali and his family.</p> <p>2. Pupils to read and discuss the problems and suggest ways in which they can be solved.</p> <p>3. Pupils assist in the preparation of a list of the disadvantages of a big family.</p>

Content	Teachers' Guide	Pupils' Activities
	<p>men have similar incomes - to work out the proportion of their income spent on food.</p> <p>6. Show that both fathers love their families, lead pupils to see why Ahmad is more able to provide for his family.</p> <p>7. Briefly lead pupils to find out what Ali and his wife intend to do about the size of their family.</p>	<p>Pupils to work percentage of income spent on food by both families.</p> <p>6. Pupils to supply the answer.</p> <p>7. Discussion on family planning facilities at the Health Clinic. Ahmad had planned his family but not Ali.</p>
<p>ate clothing is d for protection and rance.</p> <p>members in the family require a greater out- or clothes.</p> <p><u>and Living Space</u></p> <p>healthy living there is d for sufficient space est, living and privacy ate facilities such as t, air space and venti- n.</p>	<p>1. Select pupils to perform Act II and instruct the rest of the pupils to jot down the problems faced by Mr. Ali and his family in terms of: clothing, living space, and peaceful living.</p> <p>2. Teacher to lead discussion by pupils on the points jotted down by them as well as on their recollection of the play.</p> <p>3. Teacher to list, with pupils' assistance, the disadvantages of a big family, in terms of clothing and household facilities.</p>	<p>1. Pupils perform play. Rest of pupils jot down their impressions of the problems faced by Mr. Ali and his family.</p> <p>2. Pupils to read their own notes or provide their impressions of the problems.</p> <p>3. Pupils assist teacher with the list.</p>

Content	Teachers' Guide	Pupils' Activities
<p>b) A big family means overcrowding in most instances, sharing of space and facilities - getting in one another's way.</p>	<p>4. Teacher to lead class to surmise what the situation in Mr. Ahmad's house would be like.</p>	<p>4. Pupils to write down orally their opinion the situation would be like in Mr. Ahmad's house.</p>
<p><u>Lesson 3:</u></p> <p>4. "The family hour": for healthy family life:</p> <p>a) Members of the family need to have time for each other such as the 'quiet hour' in the evening for study; for the discussion and solution of mutual problems; family games and entertainments.</p> <p>b) Big families tend to result in overworked parents who are likely to be too tired to find time for their children and because of the large number of children, time spent on each individual child would be limited. Congestion in the family house tends to result in children spending their time in the neighbourhood - lack of family cohesion.</p>	<p>1. Teacher to select pupils to perform Act III. This act is about life in the small family.</p> <p>2. Teacher to ask pupils to point out the benefits enjoyed by the members of the small family - such as opportunity for home study, attention of parents on the individual child.</p> <p>3. The extent to which the teacher will deal with pupils' questions on Family Planning Programmes referred to by both Mr. Ali and Mr. Ahmad will depend on the prevailing attitude of the community. It would be desirable to explain very generally what the Family Planning Programme is about but no mention should be made on the techniques of birth control.</p>	<p>1. Select pupils to perform Act III.</p> <p>2. Pupils to narrate the act in their own words and the benefits enjoyed by the members of the small family in Ahmad's family and Ali's family. Pupils to give reasons for the differences.</p>

Content	Teachers' Guide	Pupils' Activities
<p>means over- most instances, pace and faci- ing in one</p>	<p>4. Teacher to lead class to surmise what the situation in Mr. Ahmad's house would be like.</p>	<p>4. Pupils to write down or explain orally their opinions of what the situation would be like in Mr. Ahmad's house.</p>
<p>" for healthy e family need for each other quiet hour' in or study; for n and solution blems; family ertainments. tend to result parents who be too tired for their chil- use of the large ldren, time individual e limited. Con- e family house it in children r time in the - lack of cn.</p>	<p>1. Teacher to select pupils to perform Act III. This act is about life in the small family. 2. Teacher to ask pupils to point out the benefits enjoyed by the members of the small family - such as opportunity for home study, attention of parents on the individual child. 3. The extent to which the teacher will deal with pupils' questions on Family Planning Programmes referred to by both Mr. Ali and Mr. Ahmad will depend on the prevailing attitude of the community. It would be desirable to explain very generally what the Family Planning Programme is about but no mention should be made on the techniques of birth control.</p>	<p>1. Select pupils to perform Act III. 2. Pupils to narrate the play in their own words and point out the benefits enjoyed by a child in Ahmad's family and not in Ali's family. Pupils to suggest reasons for the difference.</p>

Content	Teachers' Guide	Pupils
<p><u>Lesson 4:</u> Revision and consolidation</p>	<p>It is suggested that the teacher conclude this series of lessons by asking the pupils to work from what they have seen from the Play, the advantages of the small family and the disadvantages of the big family in terms of the concepts stated in column 1. It would be desirable if the teacher can go further and ask the pupils to cite other advantages and disadvantages not covered in the Play.</p>	
<p>1. Community facilities for family welfare: Education; Housing; Job opportunities.</p>	<p>Act IV may be staged or read by pupils individually.</p> <p>This Act is aimed at highlighting some effects of family size or community facilities for family welfare.</p> <p>From the conversation in the play the teacher may suggest to the pupils to list what they consider to be the facilities in the community that are important for family welfare.</p> <p>In the play the drop in infant mortality rate is given as a reason for the rapid increase of population in the country. The teacher may also discuss the following figures if he feels the class is able to:</p>	<p>Pupils read</p> <p>Pupils write the community them.</p> <p>Pupils to work children in the number of their who are in so</p> <p>- cost of a in terms of for transport.</p>

Content	Teachers' Guide	Pupils' Activities
and consolidation	<p>It is suggested that the teacher conclude this series of lessons by asking the pupils to work from what they have seen from the Play, the advantages of the small family and the disadvantages of the big family in terms of the concepts stated in column 1. It would be desirable if the teacher can go further and ask the pupils to cite other advantages and disadvantages not covered in the Play.</p>	
<p>by facilities for welfare: ion; g; opportunities.</p>	<p>Act IV may be staged or read by pupils individually.</p> <p>This Act is aimed at highlighting some effects of family size or community facilities for family welfare.</p> <p>From the conversation in the play the teacher may suggest to the pupils to list what they consider to be the facilities in the community that are important for family welfare.</p> <p>In the play the drop in infant mortality rate is given as a reason for the rapid increase of population in the country. The teacher may also discuss the following figures if he feels the class is able to:</p>	<p>Pupils read or enact the play.</p> <p>Pupils write out the facilities in the community which are used by them.</p> <p>Pupils to work out the number of children in their family: the number of their brothers and sisters who are in schools.</p> <p>- cost of a year's schooling, in terms of fees, cost of books, transport.</p>

Content	Teachers' Guide	Pupils' Activities												
	<p style="text-align: center;"><u>West Malaysia</u> (per 1000 persons)</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th style="text-align: center;"><u>1947</u></th> <th style="text-align: center;"><u>1966</u></th> </tr> </thead> <tbody> <tr> <td>Birth rate</td> <td style="text-align: center;">42.9</td> <td style="text-align: center;">37.3</td> </tr> <tr> <td>Death rate</td> <td style="text-align: center;"><u>19.4</u></td> <td style="text-align: center;"><u>7.6</u></td> </tr> <tr> <td>Natural increase</td> <td style="text-align: center;">23.5</td> <td style="text-align: center;">29.7</td> </tr> </tbody> </table> <p>Malaysia's crude birth rate declined from 42.9 in 1947 to 37.3 in 1966 but the crude death rate declined more rapidly from 19.4 to 7.6 thus enabling the rate of population growth to increase from 2.4% in 1947 to about 3% in 1966. It is our hope that with a vigorous family planning programme the annual rate of population growth will gradually be reduced to 2% by 1985.</p> <p>It is not necessary to convey all these figures to the pupils. What needs to be achieved is the realization on the part of the pupils that the population increase in the country may be too rapid for the country's resources and development programme. The availability of community facilities such as education and job opportunities affects the welfare of the family and the greater the number of children the greater will be the demand on the facilities.</p> <p>It is suggested that the pupils make a study of the available community facilities and see how they are inadequate for the present population and their own families.</p>		<u>1947</u>	<u>1966</u>	Birth rate	42.9	37.3	Death rate	<u>19.4</u>	<u>7.6</u>	Natural increase	23.5	29.7	<p>- the cost of schooling for 3 and for 8 children per year.</p> <p>Pupils to work out the number of houses that will be needed when Ali's children grow up and contrast it with those required by Ahmad's children.</p> <p>Pupils to sum up the community facilities that Ali and Ahmad's family will use and to show that Ali will have to spend more on his bigger family.</p>
	<u>1947</u>	<u>1966</u>												
Birth rate	42.9	37.3												
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Content	Teachers' Guide	Pupils' A
	<p>In the play reference is again made to the Family Planning Clinic. The purpose is to gradually condition the pupils to the awareness of the availability of the facility in the community. All they need to know is that the size of the family can be determined and the Family Planning Clinic is there to help anyone who wants to plan his family.</p>	

Evaluation:

1. Below is a paragraph summarising the story of the play which you have discussed.
Complete the story by filling in the blanks with the correct answers ():

Ali has a big family because he has _____ (3, 8) children. Ali has _____ (3, 8) and his is a _____ (big/small) family. In Ali's house _____ required to feed all the children and Ali finds it _____ (difficult/easy) to provide sufficient clothes for his children. Ali finds that the money he earns is _____ (sufficient/ insufficient) for him to feed and clothe his children. On the other hand, in Ahmad's house there is _____ (enough/not enough) money to feed the 3 children because Ahmad has _____ (few/many) children to feed. Ahmad's income/ earnings appears to be _____ (sufficient/insufficient) for him to support his family.

2. Read the statements below and indicate with a ✓ in the appropriate column whether they are true or false:
 - a) The amount of food to be provided in a family depends on the size of the family. () true () false
 - b) A man earning about M\$150 a month would be more able to provide for a small family than for a large family. () true () false

	Teachers' Guide	Pupils' Activities
	<p>In the play reference is again made to the Family Planning Clinic. The purpose is to gradually condition the pupils to the awareness of the availability of the facility in the community. All they need to know is that the size of the family can be determined and the Family Planning Clinic is there to help anyone who wants to plan his family.</p>	

1. Below is a paragraph summarising the story of the play which you have seen and discussed. Complete the story by filling in the blanks with the correct answers from within the ()::

Ali has a big family because he has _____ (3, 8) children. Ahmad has _____ (3, 8) and his is a _____ (big/small) family. In Ali's house _____ (little/much) is required to feed all the children and Ali finds it _____ (difficult/easy), to provide sufficient clothes for his children. Ali finds that the money he earns is _____ (sufficient/ insufficient) for him to feed and clothe his children well. On the other hand, in Ahmad's house there is _____ (enough/not enough) food for the 3 children because Ahmad has _____ (few/many) children to feed. The money that he earns appears to be _____ (sufficient/insufficient) for him to take care of his family.

2. Read the statements below and indicate with a ✓/ in the appropriate () whether they are true or false:
- a) The amount of food to be provided in a family depends on the size of the family. () true () false
 - b) A man earning about M\$150 a month would be more able to provide nutritious food for a small family than for a large family. () true () false

- c) A father spends as much money on clothes for his children in a family of 6 as in a family of 3. () true () false
- d) For healthy and comfortable living there is no need for sufficient space for rest, study and play. () true () false
- e) In a two-room house (a small house) a big family means overcrowding in most instances. () true () false

3. Select the phrase you think best completes each statement:

- a) I think that there should be (1) many children in a family (2) no children at all in a family (3) a few children only.
- b) (1) A family with many children (2) A family with few children - is a happy family because the parents can look after the children well.
- c) If I am the father/mother of a family I would like to have
- (1) 1 child only
 - (2) 2 children
 - (3) 3 children
 - (4) 4 children
 - (5) more than 4 children.

Editor's note: The questions in problem 2 may be converted to the completion type, perhaps more effectively.

Type of instructional material: Teachers' Guide

Subject: Social Studies (Unit: Family and Community)

Age group/level: Primary (Upper)

Planning for the Future

Objectives : To assist the pupils to become aware of how an individual's decision affects the welfare of the community and the nation; to come to a decision about the desired family size; to know the ways by which they can contribute to the well-being.

Previous learning : For this unit it is assumed that there have been previous units of instruction with the status and the problems of rapid population growth in the community. It is assumed that the pupils have been exposed to, and made aware of, the high birth rate in the community. This unit will only be concerned with how they can come to some decision about the planning of their future lives in a small family.

Division of the Unit : This unit is divided into 3 sub-units. Each sub-unit may be dealt with in 2 lessons. The 3 sub-units are:

- I. Need for community action in reducing the rate of population growth.
- II. Individual decision in relation to future family life.
- III. Doing one's part in the Community Population Programme.

Procedures : This guideline does not attempt to lay down any definite approach or method for this unit should be taught, but it is strongly suggested that the pupils should be told what decisions to make for themselves. Rather it is suggested that the unit be so structured that the pupils 'arrive' at their own decisions. The teacher is to assist in 'laying the cards on the table'.

Sub-unit I : Need for community action in reducing the rate of population growth

To be able to see the need for community action in reducing the rate of population growth

Instructional material: Teachers' Guide

Subject: Social Studies (Unit: Family and Community)

Level: Primary (Upper)

Planning for the Future

: To assist the pupils to become aware of how an individual's decision on family size affects the welfare of the community and the nation; to come to a decision as regards the desired family size; to know the ways by which they can contribute towards community well-being.

Prerequisite: For this unit it is assumed that there have been previous units of instruction which deal with the status and the problems of rapid population growth in the community. It is also assumed that the pupils have been exposed to, and made aware of, the benefits of reducing the birth rate in the community. This unit will only be concerned with how the pupils can come to some decision about the planning of their future lives in the context of a small family.

Scope: This unit is divided into 3 sub-units. Each sub-unit may be dealt with in one or more lessons. The 3 sub-units are:

- I. Need for community action in reducing the rate of population growth.
- II. Individual decision in relation to future family life.
- III. Doing one's part in the Community Population Programme.

: This guideline does not attempt to lay down any definite approach or sequence by which this unit should be taught, but it is strongly suggested that the pupils should not be told what decisions to make for themselves. Rather it is suggested that the situation be so structured that the pupils 'arrive' at their own decisions. The role of the teacher is to assist in 'laying the cards on the table'.

: Need for community action in reducing the rate of population growth

To be able to see the need for community action in reducing the rate of population it is

: desirable for the pupils to recapitulate what they have studied with regard to population status of the community - its present size, rate of growth; and to in particular the adverse consequences of rapid population growth in the community.

The teacher may approach this unit either by

- i) Arranging and planning with the pupils a survey of community needs which result of rapid population growth. However it must be stressed that the survey should be confined to community needs which are related to population growth. Therefore, it may be necessary for the pupils to find out the statistics regarding the status of the present population and the increase of population in recent years. Attention of the pupils needs to be drawn to the dependency ratio in the community. Pupils may then proceed to locate the facilities available in the community particularly in terms of education, housing, transport and employment opportunities. Pupils can then make out a deficit account of community needs - that is, those that are still lacking in the community. Pupils can then be asked to see whether this deficit is the result of the rapid increase in population.
- ii) Alternatively, if time is not available, the teacher may supply some or all of the statistics available regarding population growth in the community as well as the facilities available, so that the pupils themselves can then prepare a 'table sheet' of community facilities against number of people.

As this unit is meant only for the primary grades, the teacher should ensure that the statistics discussed are simple and presented in the form of simple graphs, charts, etc.

Sub-unit II : Individual decision in relation to future family size

The purpose of this sub-unit is to assist the pupils to develop an appreciation of the desirability of the small family as against the large family now and in the future. The pupils can realize that it is to their own advantage as future parents, and to the community, that they have small families then the object of this sub-unit is achieved.

At the primary level one cannot expect the pupils to make any firm decision on family life, which is to them quite remote. What is desirable is for the child to think in terms of the small family as the normal and desirable family.

desirable for the pupils to recapitulate what they have studied with regard to: the population status of the community - its present size, rate of growth; and the effects, in particular the adverse consequences of rapid population growth in the community.

The teacher may approach this unit either by

- i) Arranging and planning with the pupils a survey of community needs which are the result of rapid population growth. However it must be stressed that the survey should be confined to community needs which are related to population growth. Therefore, it may be necessary for the pupils to find out the statistics regarding the status of the present population and the increase of population in recent decades. Attention of the pupils needs to be drawn to the dependency ratio in the population. Pupils may then proceed to locate the facilities available in the community, particularly in terms of education, housing, transport and employment opportunities. Pupils can then make out a deficit account of community needs - that is, facilities that are still lacking in the community. Pupils can then be asked to see whether this deficit is the result of the rapid increase in population.
- ii) Alternatively, if time is not available, the teacher may supply some or all the statistics available regarding population growth in the community as well as the facilities available, so that the pupils themselves can then prepare a 'balance sheet' of community facilities against number of people.

As this unit is meant only for the primary grades, the teacher should ensure that the statistics discussed are simple and presented in the form of simple graphs, diagrams, etc.

Individual decision in relation to future family size

The purpose of this sub-unit is to assist the pupils to develop an appreciation of the desirability of the small family as against the large family now and in the future. If the pupils can realize that it is to their own advantage as future parents, as well as to the community, that they have small families then the object of this sub-unit is achieved.

At the primary level one cannot expect the pupils to make any firm decision yet about their adult life, which is to them quite remote. What is desirable is for the child to think in terms of the small family as the normal and desirable family.

An approach that may be employed to assist the pupils arrive at a decision on the small family is class discussion of the advantages of the small family and the disadvantages of the large family. The pupils may also examine how population growth in the community has led to the social and economic problems of the community. At this point it may only be necessary for the teacher to refer to what the pupils have studied in their previous lessons on the problem of population growth in the community. The pupils may, with the statistics supplied, work out the average size of the family in the community as well as the average family size.

Sub-unit III : Doing one's part in the Community Population Programme

In order to participate in any community population programme, one needs to know what the programmes are. Therefore the aim of this sub-unit is to assist the pupils to acquire that knowledge of their own community population programme. The teacher should explain to the pupils the teacher of how they can participate in those programmes may then be able to help them.

The teacher may adopt any one of a number of ways to acquaint the pupils with the content and type of the community population programmes, which in most instances are an extension of the national programmes. For example, the teacher may: identify the people responsible for such programmes, or arrange visits by the pupils to such programmes as implemented such as the child and maternity clinics, health centres, clinics, or show films or posters of such programmes.

After the pupils have acquired an awareness of what the programmes are, the teacher is then to explain and discuss with the pupils how and to what extent they can participate in those programmes now and as adults later.

It must be emphasized that whatever understanding or appreciation the pupils gain out of the discussions and visits they are unlikely to be in any real sense to participate. Therefore the teacher should aim at developing in the pupils a positive attitude towards such programmes and an awareness as to how they can keep up-to-date with such programmes.

An approach that may be employed to assist the pupils arrive at a decision favouring the small family is class discussion of the advantages of the small family as against the disadvantages of the large family. The pupils may also examine how the rapid population growth in the community has led to the social and economic problems existing in the community. At this point it may only be necessary for the teacher to recapitulate on what the pupils have studied in their previous lessons on the problems of population growth in the community. The pupils may, with the statistics supplied by the teacher, work out the average size of the family in the community as well as the two extremes in family size.

: Doing one's part in the Community Population Programme

In order to participate in any community population programme, one needs to know what the programmes are. Therefore the aim of this sub-unit is to assist the pupils to acquire that knowledge of their own community population programme. The explanation by the teacher of how they can participate in those programmes may then be attempted.

The teacher may adopt any one of a number of ways to acquaint the pupils with the nature and type of the community population programmes, which in most instances, would be an extension of the national programmes. For example, the teacher may: arrange talks by people responsible for such programmes, or arrange visits by the pupils to places where such programmes are implemented such as the child and maternity clinics, family planning clinics, or show films or posters of such programmes.

After the pupils have acquired an awareness of what the programmes are, the task of the teacher is then to explain and discuss with the pupils how and to what extent they can participate in those programme now and as adults later.

It must be emphasized that whatever understanding or appreciation the pupils may acquire out of the discussions and visits they are unlikely to be in any real position to participate. Therefore the teacher should aim at developing in the pupils a sympathetic attitude towards such programmes and an awareness as to how they can keep themselves up-to-date with such programmes.

Type of instructional material: Teachers' Guide

Subject: Social Studies (Unit: Family and Community)

Age group/level: Primary (Upper)

1. Quality of life in a family

Syllabus : In the syllabus and teaching outline that follows only tentative suggestions are given. Great care should be taken in teaching about the many complex interactions that exist between family size and quality of life, so that over-simplifications are not made. Teachers should have to realize that even the kinds of interactions are sometimes not understood to the extent.

Components of a comfortable family life: adequate provision of basic necessities, like food (nutritious and sufficient in quantity); clothing (for protection of the body); shelter (house with adequate number of rooms, ventilation, enough living space for every member of the family, sufficient lighting); freedom from wants and fears (legitimate independence of the family from other families in satisfying the wants of its own members); no aggressive compulsions.

Relationship between income of the family and availability of basic necessities: given same or different income, how the facilities would be distributed among members of a large family; the effect of distribution of facilities on the members of a large family.

Ways and means of attaining a comfortable family life: family size can be controlled, increasing the quality of family life; role of children as future parents in limiting family size.

Content	Teacher Activities	Pupil Activities
<u>Components of a comfortable life</u> Life becomes comfortable if needs of people are fulfilled. Different	The basic premise of the teaching methodology for this	The pupils to make a list of their basic needs

Material: Teachers' Guide
 es (Unit: Family and Community)
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1. Quality of life in a family

The syllabus and teaching outline that follows only tentative suggestions are made. Great care should be taken in teaching about the many complex interactions that exist between family size and quality of life, so that over-simplifications are not made. Pupils should be encouraged to realize that even the kinds of interactions are sometimes not understood, far less to the extent.

Comfortable family life: adequate provision of basic necessities, like food (nutritious and sufficient in quantity); clothing (for protection of the body); shelter (house with adequate number of rooms, ventilation, enough living space for every member of the family, sufficient lighting); freedom from wants and fears (legitimate independence of the family from other families in satisfying the wants of its own members); no aggression, nor undue compulsions.

Income of the family and availability of basic necessities: given same or similar income, how the facilities would be distributed among members of a large family, a small family; the effect of distribution of facilities on the members of a large family, a small family.

Limiting a comfortable family life: family size can be controlled, increasing comforts of family life; role of children as future parents in limiting family size.

	Teacher Activities	Pupil Activities
<u>Comfortable life</u> Comfortable if needs are met. Different	The basic premise of the teaching methodology for this	The pupils to make a list of what they think are their basic needs. Such lists

Content	Teacher Activities	Pupil Acti
<p>people need different things, but there are a number of necessities considered to be of basic importance for man.</p> <p><u>Food.</u> As an example, every person needs sufficient food to be able to live. The available food should be good in quality and sufficient in quantity. Good food would be balanced and nutritious. Proteins, vitamins etc., should be available in correct proportions. There are international standards of food consumption and the requirements of a family are not difficult to work out. Many Asians do not get enough to eat and hence there are a number of bad effects on health of people. Diseases could be caused by food-deficiency. It is therefore important that each person gets enough to eat.</p> <p><u>Clothing.</u> Provision of adequate clothing is another need for man. We wear clothes in order to protect our body against seasonal changes. We need clothes to keep our body warm during extreme winter. Similarly we need to protect ourselves from other climatic conditions not favourable for</p>	<p>topic should be inductive reasoning. The teacher should give guidance to enable pupil to move towards understanding by continually raising questions.</p> <p><u>Specific suggestions:</u> What are the basic necessities of life as viewed by the pupils? A doctor or school nurse could help the pupils understand what is meant by a balanced diet and the effects of malnutrition. Guide pupils to prepare charts and diagrams as recommended.</p> <p><u>Guide discussions on:</u> Why do we wear clothes? (Criteria for selecting clothes). What kind of clothes should one wear during different seasons? Which clothes are better: the costly ones or the clean ones but less costly and simple?</p>	<p>prepared by different consolidated and prepared leaders in discussion.</p> <p>Preparation of charts components of balance of calories in community/ country as national standards. Preparation of a list of food resulting from deficiency of kinds of food.</p> <p>Making a chart about clothes one should wear in different seasons. Collection of children of different ages wearing different clothes are more useful or those which are costly but clean.</p>

Content	Teacher Activities	Pupil Activities
<p>different things, but a number of necessities to be of basic importance.</p> <p>For example, every person needs sufficient food to be able to use the available food in quality and quantity. Good food should be balanced and nutritious. Vitamins etc., should be in correct proportions. There are international standards of food consumption and the elements of a family are difficult to work out. Many people do not get enough to eat and there are a number of diseases on health of people. These could be caused by food deficiency. It is therefore important that each person gets enough provision of adequate food as another need for man. We need clothes in order to protect our body against seasonal changes. We need clothes to keep warm during extreme weather. Similarly we need to protect ourselves from other climatic conditions not favourable for</p>	<p>topic should be inductive reasoning. The teacher should give guidance to enable pupil to move towards understanding by continually raising questions.</p> <p><u>Specific suggestions:</u> What are the basic necessities of life as viewed by the pupils? A doctor or school nurse could help the pupils understand what is meant by a balanced diet and the effects of malnutrition. Guide pupils to prepare charts and diagrams as recommended.</p> <p><u>Guide discussions on:</u> Why do we wear clothes? (Criteria for selecting clothes). What kind of clothes should one wear during different seasons? Which clothes are better: the costly ones or the clean ones but less costly and simple?</p>	<p>prepared by different groups may be consolidated and presented by group leaders in discussion.</p> <p>Preparation of charts indicating the components of balanced diet; consumption of calories in their family/community/ country as compared to international standards of food consumption. Preparation of a list of diseases resulting from deficiency of different kinds of food.</p> <p>Making a chart about the kinds of clothes one should wear in different seasons. Collection of pictures of children of different countries wearing different clothes. Debate on which clothes are more useful: those that cost much or those that are less costly but clean.</p>

Content	Teacher Activities	Pupil Activities
<p>us. Clothes are also worn for decorative purposes. Although it is not necessary to have very costly clothes, it is important that these should be clean helpful in maintaining good health. Dirty and insufficient clothes can result in development of diseases.</p> <p><u>Shelter.</u> Another important need of people is to have good shelter. A house should be available for all families. The house should be spacious enough to provide healthful living to the family. The number of rooms should be according to requirements of the family. If the children go to school, it is important that the house provides room for independent study without interruption. The living space should be reasonable for every member of the family. The rooms should not be dark and dingy. Sunlight should find its way in the rooms. The lighting arrangement should be such that it does not adversely affect the eyesight. Another important requirement is adequate ventilation.</p> <p><u>Freedom.</u> Besides the necessities of life mentioned earlier, there are other needs of human beings. Every man should have reasonable freedom to act. He should have freedom from undue fears and compulsions.</p>	<p>Help pupils understand, through their description of different houses which have different patterns of construction, that there is no one pattern of house building. Bring in, if possible, a town planner to explain about how much living space, light etc. a house should have. This must be related to the size of the family. Emphasize through questioning that a big family needs a big house and that overcrowding in a house is not healthful. Relate, wherever possible, the contents of this unit with those of others in other subject areas.</p> <p>Guide discussion of pupils on how freedom may be limited in a big family, and how it may increase in a small family. Avoid over-generalizations and over-simplifications. The opposite may also</p>	<p>Different pupils describe they live in. Collect photos of houses of people in different countries and other countries. Visit a town planner's office about the criteria of a good house. Interview a doctor about insufficient light arrangements, inadequate living space etc. Survey the houses in the area and determine what percentage would be called good in terms of healthful living developed by the pupils.</p> <p>Discussion on the topic: How many limits on individual freedom than a small one? Who would be the members of a big family and a small one?</p>

Content	Teacher Activities	Pupil Activities
<p>also worn for decoration. Although it is not always very costly clothes, that these should be in maintaining good and insufficient clothes development of diseases.</p> <p>important need of people for good shelter. A house should be suitable for all families. It should be spacious enough to provide healthful living to the number of rooms should be according to the requirements of the family. When children go to school, it should be such that the house provides for independent study without interference. The living space should be adequate for every member of the family. Windows should not be dark. Every room should find its light. The lighting arrangement should be such that it does not interfere with the eyesight. Another important requirement is adequate ventilation.</p>	<p>Help pupils understand, through their description of different houses which have different patterns of construction, that there is no one pattern of house building. Bring in, if possible, a town planner to explain about how much living space, light etc. a house should have. This must be related to the size of the family. Emphasize through questioning that a big family needs a big house and that overcrowding in a house is not healthful. Relate, wherever possible, the contents of this unit with those of others in other subject areas.</p>	<p>Different pupils describe the houses they live in. Collect photographs of houses of people in different communities and other countries in the world. Visit a town planner's office to ask about the criteria of a good house. Interview a doctor about the effect of insufficient light arrangements and of inadequate living space and ventilation. Survey the houses in the community to determine what percentage of houses can be called good in terms of criteria developed by the pupils.</p>
<p>the necessities of life. Earlier, there are human beings. Every human being has a reasonable freedom and should have freedom from undue compulsions.</p>	<p>Guide discussion of pupils on how freedom may be limited in a big family, and how it may increase in a small family. Avoid over-generalizations and over-simplifications. The opposite may also</p>	<p>Discussion on the topic: Does a big family put more limits on individual freedom than a small one? Who quarrel more - the members of a big family or those of a small one?</p>

Content	Teacher Activities	Pupil Activities
<p><u>Relationship between family income and availability of necessities.</u> If the income of the family is sizeable each family member may get the basic necessities. If, on the other hand, the family income is less, the basic necessities of life become difficult to provide.</p> <p>Family size is closely related to distribution of basic necessities among the family members. If the family is big, the income has to be distributed among many people. If the family size is small, the same income will be distributed among fewer members and hence, with the same income, a small family can live more comfortably than a large family. We can, therefore, say that in general the small family enjoys more comforts of life as compared to a large-size family earning the same income. In a small family, the parents can provide more and better food, clothing, living space and other facilities for their children. By comparison, a big family with the same or similar income as that of a small</p>	<p>be true - members of large families may well have more freedom.</p> <p>The teacher would find it more advisable to relate the contents of column 1 with Mathematics. Exercises on distribution of necessities to members of a big and a small family (earning the same amount) should be helpful in conveying the concepts more meaningfully.</p> <p>The teacher may draw homely examples to enable pupils to understand that given same or similar income a small family can enjoy more comforts of life as compared to a large family. The pupils should be helped to draw this conclusion for themselves.</p>	<p>Doing the sums, such as a big family earning brought 5 bananas for get? A father earning 12 toffees for his 3 many toffees would ea</p> <p>Each child needs 8 oz How much milk would a 8 persons need. How m be needed for a small 3 children. Which fan more money?</p>

ent	Teacher Activities	Pupil Activities
<p>between family income and the number of family members. If the family income is small, the family may find it difficult to meet the basic necessities. If the family income is large, the family may find it easy to meet the basic necessities. The number of family members is also an important factor. In a large family, the income has to be shared among many people. In a small family, the income is shared among fewer people. Therefore, a small family can live more comfortably than a large family. We can see that in general, a small family enjoys more comforts than a large family. For example, a small family can afford to buy more clothes, live in a better house, and have more facilities. By comparison, a large family may have to live in a small house and have fewer facilities. This is because the same amount of money can buy more things for a small family than for a large family.</p>	<p>be true - members of large families may well have more freedom.</p> <p>The teacher would find it more advisable to relate the contents of column 1 with Mathematics. Exercises on distribution of necessities to members of a big and a small family (earning the same amount) should be helpful in conveying the concepts more meaningfully.</p> <p>The teacher may draw homely examples to enable pupils to understand that given same or similar income a small family can enjoy more comforts of life as compared to a large family. The pupils should be helped to draw this conclusion for themselves.</p>	<p>Doing the sums, such as: A father in a big family earning Rs.200 p.m. brought 5 bananas for his 10 children. How much of bananas would each child get? A father earning Rs.200 brought 12 toffees for his 3 children. How many toffees would each child get?</p> <p>Each child needs 8 oz. milk every day. How much milk would a big family of 8 persons need. How much milk would be needed for a small family having 3 children. Which family can save more money?</p>

Content	Teacher Activities	Pupil Activities
<p>family, the facilities available are insufficient and hence the standard of life is not as high as that of a small family.</p> <p><u>How to achieve comfortable family living.</u> Not long ago, many people were not aware that family size can be controlled. It is possible to have as many children as the parents want. It is possible to have fewer children and to keep the family size small.</p> <p>The children of today will grow up. They will marry and become parents. It is important for the children of today to be aware of the problems of large families, in the interest of their own welfare and of the welfare of their nation.</p>	<p>The teacher should focus on what the children of today can do towards a more comfortable life for their children. The approach should be such as to suggest constructive steps which the children could take when they grow up. Resentment against parents should not be allowed to develop as a consequence of the realization of the need to limit the family size.</p>	<p>Make a list of items that make the family life more comfortable, estimating the cost of it. Then work out the total money needed to make family life more comfortable. If the income of a big family is the same, what things can be done to live a more comfortable life?</p> <p>Discussion on what should be done to limit the size of a family for comfort. Interview parents of a large family and then a small family about the advantages and disadvantages of a large/small family.</p> <p>In small groups make a list of the advantages and disadvantages of having a small family. Present this list to the class.</p> <p>What can the children do to make family life more comfortable when they grow up and become parents?</p>

- Assignment/Evaluation :
1. In a small family, the children are likely to have more food and more money compared with a big family having the same income. (True/False)
 2. Family size can be controlled if the parents wish so. (True/False)

	Teacher Activities	Pupil Activities
<p>ities available and hence the is not as high as family.</p> <p>ortable family ago, many people at family size . It is possible children as the is possible to en and to keep small.</p> <p>oday will grow ry and become portant for the to be aware of arge families, t their own wel-elfare of their</p>	<p>The teacher should focus on what the children of today can do towards a more comfortable life for their children. The approach should be such as to suggest constructive steps which the children could take when they grow up. Resentment against parents should not be allowed to develop as a consequence of the realization of the need to limit the family size.</p>	<p>Make a list of items that would make the family life more comfortable. Estimating the cost of items you need, work out the total money needed for making family life more comfortable. If the income of a big and of a small family is the same, who can buy more things and live a more comfortable life?</p> <p>Discussion on what should be the size of a family for comfortable life. Interview parents of a big family and then a small family about the advantages and disadvantages of a big family/small family.</p> <p>In small groups make a list of advantages of having a small family. Present this list to the class.</p> <p>What can the children of today do to make family life more comfortable when they grow up and become parents?</p>

In a small family, the children are likely to have more food and more and better clothes compared with a big family having the same income. (True/False)

Family size can be controlled if the parents wish so. (True/False)

3. The children of primary school will not be able to do anything to improve life when they grow up. (True/False)
4. Nobody can limit the size of the family. (True/False)
5. When you grow up, what can you do to improve the quality of life in your country?
6. What are the advantages of having a small family?

2. Socio-cultural Consequences of Population Growth

Content	Teacher Activities	Pupil Activities
<p>In some countries of Asia, the number of children and adolescents has outgrown or will soon outgrow other sectors of population. There is, thus, in some countries, a preponderance of teenage and young population. In such a situation it becomes difficult for the parents to support them adequately. Since the parents have to work to earn a living for their children, most of the parents do not find enough time to supervise the activities of their children. When children are left unattended, they are likely to develop undesirable habits. This is one reason why delinquency is on the increase, especially in urban areas.</p> <p>In many Asian countries about half of the children do not go to school. As such they do not learn the</p>	<p>Bring in the report of the last <u>Census</u>, and make available to pupils the data about the percentage of children below 16 years of age.</p> <p>Give pupils an idea of the rate of population growth, and assuming different rates of population growth, help them estimate the current situation about distribution of population in different age groups.</p> <p>Help pupils collect data on the basis of their families as to the approximate number of <u>dependents</u> on elders.</p> <p>Give them an idea of projection of population in different age groups by doing simple sums.</p>	<p>Study the Census Report, age-sex pyramid of the country on the basis of data about population. Construct one for your country.</p> <p>Ask fellow pupils about teenage dependents, calculate the average number per elders.</p> <p>Following the above, discuss what kind of family has the small or the big number of dependents?</p> <p>How many people in your country are educated?</p> <p>Interview some community members what they think are the reasons for illiteracy in your country, about remedies, etc. Why delinquency and crime are increasing?</p>

3. The children of primary school will not be able to do anything to improve the quality of life when they grow up. (True/False)
4. Nobody can limit the size of the family. (True/False)
5. When you grow up, what can you do to improve the quality of life in your family?
6. What are the advantages of having a small family?

2. Socio-cultural Consequences of Population Growth

Content	Teacher Activities	Pupil Activities
<p>ies of Asia, the number of adolescents has outsoon outgrow other population. There is, countries, a preponderance and young population. It becomes difficult for parents to support them since the parents have to be living for their children. The parents do not find it easy to supervise the activities of their children. When children are not educated, they are likely to develop undesirable habits. This is why delinquency is on the increase especially in urban areas.</p> <p>countries about half do not go to school. They do not learn the</p>	<p>Bring in the report of the last <u>Census</u>, and make available to pupils the data about the percentage of children below 16 years of age.</p> <p>Give pupils an idea of the rate of population growth, and assuming different rates of population growth, help them estimate the current situation about the distribution of population in different age groups.</p> <p>Help pupils collect data on the basis of their families as to the approximate number of <u>dependents</u> on elders.</p> <p>Give them an idea of projection of population in different age groups by doing simple sums.</p>	<p>Study the Census Report especially the age-sex pyramid of the country. On the basis of data about your community, construct one for your community.</p> <p>Ask fellow pupils about the number of teenage dependents, elders, and calculate the average number of dependents per elders.</p> <p>Following the above calculation which kind of family has less dependents: the small or the big?</p> <p>How many people in your community are educated?</p> <p>Interview some community members about what they think are the causes of low literacy in your communities. Ask them about remedies, etc. Also find out why delinquency and other social problems are increasing.</p>

Contents	Teacher Activities	Pupil Activities
<p>patterns of good behaviour. They often do not have a gainful occupation. Delinquency is a disease of the society. With increasing population, this disease is also on the increase and is proving to be very harmful for the peace of the communities in particular, and the society in general.</p> <p>In recent years, science has contributed enormously to development and progress. In the face of modern knowledge, some of the traditional beliefs are being questioned, especially by the younger generation. Many of them are facing dilemmas about traditional morals. With insufficient opportunities for the pursuit of education, millions now growing up are not being adequately exposed to a moral code or a suitable education. As a result, conflicting values are being preached and acted upon by many people. Such circumstances give rise to many problems for society. The occurrences like theft, quarrels, social conflict, disturb the peace of the community. If educated people do not take adequate steps and the population keeps on growing at a high rate, these social problems can be very dangerous to community life.</p>	<p>Guide interviews by pupils of some members of the community about the causes of low literacy; high rates of delinquency; increased quantum of social problems, etc.</p> <p>Guide interview with parents of illiterate children about why they don't or can't send their children to school.</p> <p>Collect stories about conflicting moral values preached in the community.</p> <p>Guide interviews with police officers, social workers etc. about the causes of increasing delinquency/crime.</p> <p>Help to pinpoint social problems in the community as viewed by them.</p> <p>Guide discussion on measures to solve these problems.</p>	<p>Discuss measures to improve life, in the light of introduced and prepare a written report.</p> <p>What new discoveries of changed life in the community view parents of illiterate children about why they don't or can't send their children to school.</p> <p>Define what you mean by social problems in the community.</p> <p>Discussion on common social problems of the community.</p> <p>Interview police officers, social workers about what are the main causes of these problems.</p> <p>Write an essay on what you think bothers you in the community.</p> <p>On the basis of your written report, what can be done to solve these problems.</p>

Contents	Teacher Activities	Pupil Activities
<p>behaviour. They of- a gainful occupation. disease of the so- creasing population, also on the increase to be very harmful the communities in the society in</p> <p>science has con- sely to development the face of modern of the traditional questioned, es- younger generation. facing dilemmas l morals. With in- unities for the tion, millions now ot being adequate- moral code or a on. As a result, es are being ed upon by many umstances give blems for society.</p> <p>Like theft, quar- lict, disturb the unity. If educated adequate steps n keeps on growing these social prob- dangerous to com-</p>	<p>Guide interviews by pupils of some members of the community about the causes of low lite- racy; high rates of delin- quency; increased quantum of social problems, etc.</p> <p>Guide interview with parents of illiterate children about why they don't or can't send their children to school.</p> <p>Collect stories about con- flicting moral values preached in the community.</p> <p>Guide interviews with police officers, social workers etc. about the causes of increasing delinquency/crime.</p> <p>Help to pinpoint social prob- lems in the community as view- ed by them.</p> <p>Guide discussion on measures to solve these problems.</p>	<p>Discuss measures to improve community life, in the light of interviews con- ducted and prepare a written report.</p> <p>What new discoveries of science have changed life in the community. Inter- view parents of illiterate children about why they don't or can't send their children to school.</p> <p>Define what you mean by good behaviour in the community.</p> <p>Discussion on common social problems of the community.</p> <p>Interview police officers, magistrates, social workers about what they think are the main causes of the social problems.</p> <p>Write an essay on what you think bothers you in the community.</p> <p>On the basis of your writing discuss what can be done to solve these problems.</p>

Type of instructional material: Teachers' Guide

Subject : Social Studies (Unit: Family and Community)

Age group/level: Primary (Upper)

Effects of rapid population growth on the community (Philippines)

Introduction : The world population in 1965 totalled 3.3 billion and the present rate of increase is 2.5 per cent per year. If this trend continues, according to projections of the United Nations, the world population would more than double, reaching 7.4 billion by the year 2000.

The Philippines is one of the developing nations of Asia which has a very high population growth rate. According to the 1970 census, its population is 37.7 million, the 6th among Asian countries in population size and 15th in world population. It is increasing by an estimated 3.5 per cent per year. The rise poses a serious problem to the country and a challenge to every Filipino.

It is therefore very important that something be done to develop an awareness of the population situation in order that they may be influenced to plan the number of children accordingly. It is for this purpose that this unit on population education is being integrated in social studies in order to provide the pupils an insight into the population situation and make them realize its impact on their lives. This may convince them of the advantages in having small families so that when they grow up they will be able to have few children.

Since the patterns of interaction between rapid population growth and the environment are complex, care should be taken not to make over-simplified deductions and conclusions. Pupils have to recognize that in several instances even the manner of interaction is not known, far from the extent of interaction.

Objectives : Develop an understanding of simple demographic terms (population growth, birth rate, migration, immigration, emigration); causes of population growth in the Philippines; effects of rapid population growth on the community services and living conditions; Develop the ability to discuss intelligently the population growth of one's country; causes; observe existing conditions in one's community; explain relationships

Instructional material: Teachers' Guide

Social Studies (Unit: Family and Community)

Level: Primary (Upper)

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It is therefore very important that something be done to develop an awareness of the population situation in order that they may be influenced to plan the number of their children accordingly. It is for this purpose that this unit on population education is proposed for integration in social studies in order to provide the pupils an insight into the problem of population and make them realize its impact on their lives. This may convince them of the advantages in having small families so that when they grow up they will be influenced to have few children.

Since the patterns of interaction between rapid population growth and the community are very complex, care should be taken not to make over-simplified deductions and conclusions. The pupils have to recognize that in several instances even the manner of interaction may not be known, far from the extent of interaction.

- : Develop an understanding of simple demographic terms (population growth, birth-rate, death-rate, migration, immigration, emigration); causes of population growth in the community; effects of rapid population growth on the community services and living conditions.

Develop the ability to discuss intelligently the population growth of one's town and its causes; observe existing conditions in one's community; explain relationships between cause

and effect of over-population; gather and analyze relevant data and information; interpret simple charts, tables, and graphs.

Develop a positive attitude toward the need for rational demographic decisions; the advantages of planning for a small family.

Syllabus

- : 1. Meaning of simple demographic terms such as population growth, births, death, and migration.
2. Causes of population growth (excess of births over deaths, immigration over emigration).
3. Effect of rapid population growth on the age structure of the population (more young people).
4. Impact of rapid population growth on the income of the community (the bulk of income is used for maintaining present services and some to increase the quantity of services to meet the needs of the growing population; consequently no savings can be made for the improvement of these services).
5. Effect of rapid population growth on the facilities of the community: Housing: Overcrowding because of the shortage of living space. Higher housing costs for constructing a house and paying of rentals result. Health and sanitation facilities: Water supply becomes scanty, drainage, refuse and waste disposal problems in slum areas. Medical facilities are inadequate. Transportation: Facilities deteriorate and become inadequate. Education: Classes are overcrowded and textbooks and other instructional materials are inadequate. Jobs: More people will need more jobs and unless new jobs are opened for them, unemployment will be a serious problem.

Rapid population growth can be restrained by mutual and concerted planning for the future.

Activities

- : 1. Display drawn pictures and cut outs from magazines and newspapers showing effects of over-population such as crowded houses, slum districts, overcrowded buses, etc.
2. Post simple charts, tables and other visual aids showing some demographic information such as the following: number of babies being born per day in the country, deaths, and population growth of the country.
3. Call attention to the displays and arouse pupils' interest in the pictures by asking questions. What do you observe about the number of people in these pictures? What kind of communities do these communities have, thick or sparse? Why do you think so? What income do these people bear in their crowded homes? In the crowded conveyances? etc.

and effect of over-population; gather and analyze relevant data and information; read and interpret simple charts, tables, and graphs.

Develop a positive attitude toward the need for rational demographic decisions; appreciate the advantages of planning for a small family.

Meaning of simple demographic terms such as population growth, births, deaths, immigration.

Causes of population growth (excess of births over deaths, immigration over emigration).

Effect of rapid population growth on the age structure of the population (more dependents).

Impact of rapid population growth on the income of the community (the bulk of the income is used for maintaining present services and some to increase the quantity of services to meet the needs of the growing population; consequently no savings can be accumulated for the improvement of these services).

Effect of rapid population growth on the facilities of the community: Housing: There is overcrowding because of the shortage of living space. Higher housing costs in terms of constructing a house and paying of rentals result. Health and sanitation facilities: Water supply becomes scanty, drainage, refuse and waste disposal problems increase, medical facilities are inadequate. Transportation: Facilities deteriorate and are inadequate. Education: Classes are overcrowded and textbooks and other instructional materials are inadequate. Jobs: More people will need more jobs and unless new jobs are opened for them, unemployment will be a serious problem.

Rapid population growth can be restrained by mutual and concerted planning for a small family.

Display drawn pictures and cut outs from magazines and newspapers showing effects of over-population such as crowded houses, slum districts, overcrowded buses ...

Post simple charts, tables and other visual aids showing some demographic information such as the following: number of babies being born per day in the country, daily births and deaths, population growth of the country.

Call attention to the displays and arouse pupils' interest in the pictures by asking: What do you observe about the number of people in these pictures? What kind of population do these communities have, thick or sparse? Why do you think so? What inconveniences do these people bear in their crowded homes? In the crowded conveyances? etc.

4. Present the tables showing the population growth of the Philippines. Have pupils compare the births and deaths. Point out the fact that this means a very rapid growth rate and that it is increasing.
5. Guide the pupils to hypothesize about why the nation must be concerned about over-population.
6. Discuss the causes of population growth. At this level they are expected to have an understanding of simple demographic terms such as *population explosion, births, deaths, immigration, emigration.*
7. Have pupils investigate the population data of the town and discuss the number and changes of births and deaths from 1950 to the present.
8. Invite a resource person from local government to talk on the local budget e.g. for schools, for salaries, for medical services.
9. Have a discussion on how the local income is spent for the needs of the community, make them realize that: there is a relationship between the income of the town and the kind of services it can give; the income usually does not increase as fast as the population growth.
10. Plan a field trip around the community in order to make a survey of its conditions and needs. Before the trip, help the class raise questions on what they want to observe.
11. Have the pupils report and discuss their observations.
12. Lead the pupils to draw conclusions on the relationship between rapid population growth and the community services.
13. Ask the class to make predictions regarding the following if the population continues to increase rapidly and the income does not increase correspondingly: availability of land for housing and cultivation; school, health and medical facilities; employment.
14. Guide the class to generalize on the effects of rapid population growth on the living conditions of the people.
15. Assist them to realize what they can do as future parents in order not to contribute to population explosion. At this stage, class discussion on the desirable number of children may be held.

Assignment/
Evaluation

- : 1. The population of one's town is
 - a) not included in the total population of the country.
 - b) added to the total population of the country.
 - c) part of the total population of the country.

- 2. To accommodate a dense population, this may happen to the community.
 - a) Slum districts will be removed.
 - b) Farming lands may be converted into housing areas.
 - c) There will be no more commercial districts.

- 3. Which condition will result in a comfortable life for the community?
 - a) The income is enough only to maintain the present services.
 - b) The income cannot pay for the needs of the community.
 - c) There is some money left from the income.

4. Questionnaire

If possible prepare the forms before hand. Otherwise, write the items on the board and have the pupils write the answers on their papers. This may help determine whether the unit has made an impact on their decisions regarding family size:

- a. Name

- b. Number of sisters living

- c. Number of brothers living

- d. What do you think is the best number of children in the family ?

- e. When you become a parent, how many children do you plan to have ?
Give your reasons.

6. Have the pupils write one or more paragraphs on: "The possible consequences of rapid population growth on the community".



Type of instructional material: Teachers' Guide

Subject: Population Education

Age group/level: Secondary (Lower)

Population growth and quality of life
(Population policies and programmes in Indonesia)

Introduction

: The problem of population is almost as old as the history of mankind. Even B.C., Plato observed that his world was getting too crowded. But not until the slower pace of economic growth was the world really made aware of the problem.

This situation apparently was not limited to the Western world. In the East too, the problem was pointed out by Confucius, who had already begun to postulate a proportion between land and population. To him, any major deviation from this would create disaster or poverty.

Throughout history, man invented better ways of making life more comfortable. Progress and technological advances contributed to a considerable extent to the ability to enjoy healthier and longer life. These factors contributed directly to the increase of population. Better medical care and improved nutrition were among the factors responsible for considerably reducing the death rate while at the same time maintaining the high birth rate.

In certain cases, such as in Indonesia today, the imbalance between death and birth is quite large. This situation has serious consequences in almost every aspect of life, be it economic, cultural, social, political etc. Today, everywhere, the serious consequences that will follow, if the present rate of increase is to persist, are beginning to be understood. To overcome this problem, positive measures must be taken. These measures must have as their ultimate goals the balance between population and resources. The key is to find a balance between population growth and socio-economic development.

Various disciplines are concerned with population, studying its growth, its impact on economic development, the sociology of population dynamics, etc. Demography, economics, civics, biology, ecology, history, are among those primarily interested in the various aspects of this problem.

Additional material: Teachers' Guide
Population Education
: Secondary (Lower)

Population growth and quality of life
(Population policies and programmes in Indonesia)

: The problem of population is almost as old as the history of mankind. Even in about 400 B.C., Plato observed that his world was getting too crowded. But not until Malthus introduced his view on the almost fatal consequences of rapid population increase compared to the slower pace of economic growth was the world really made aware of the magnitude of the problem.

This situation apparently was not limited to the Western world. In the Eastern Hemisphere too, the problem was pointed out by Confucius, who had already begun to postulate an ideal proportion between land and population. To him, any major deviation from this proportion would create disaster or poverty.

Throughout history, man invented better ways of making life more comfortable. Scientific progress and technological advances contributed to a considerable extent to enabling man to enjoy healthier and longer life. These factors contributed directly to the rapid increase of population. Better medical care and improved nutrition were among the various factors responsible for considerably reducing the death rate while at the same time maintaining the high birth rate.

In certain cases, such as in Indonesia today, the imbalance between death and birth rates is quite large. This situation has serious consequences in almost every aspect of life, be it economic, cultural, social, political etc. Today, everywhere, the serious consequences that will follow, if the present rate of increase is to persist, are beginning to be understood. To overcome this problem, positive measures must be taken. These measures must have as their ultimate goals the balance between population and resources, and between population growth and socio-economic development.

Various disciplines are concerned with population, studying its growth, its relation to economic development, the sociology of population dynamics, etc. Demography, economics, civics, biology, ecology, history, are among those primarily interested in significant aspects of this problem.

Other than research, however, too little attention has been given to the problem of population growth. None of these traditional disciplines has - so far - explicitly put forward population education as imperative in its programme. Indeed, there are a number of difficulties to be encountered should one try to create a new and separate discipline. Nonetheless, there is growing awareness of the value of accelerating a population stabilization programme through education. Therefore, another alternative needs to be considered.

One of the possible solutions is to identify basic elements to be "plugged in" to various traditional school subject. One idea of such an approach is to introduce population education quietly; avoiding opposition as much as possible. It is important that all young people understand as soon as possible the real significance of the population explosion. There is a pressing need to influence the reproductive behaviour of people, that is to provide strong motivation and to cultivate favourable attitudes toward reducing the birth rate. This need is now being felt in Indonesia, and the Indonesian Government has propounded a policy on control of population growth.

The population problem is complex. It is closely interrelated with various aspects of human life. Therefore every attempt to study this problem should clearly bear in mind the interrelatedness of the various disciplines dealing with the study of men and their environment. For this reason, the introduction of population problems to pupils at the lower secondary level may best be executed by the use of the unit approach.

Through this unit of population study, the teacher will develop further details as well as instructional plans. The success of this pattern depends to a large extent on the ability of the teacher to generate specific operational objectives as derived from the general objectives proposed in this unit. The success will of course further be determined on the skills of the teacher in employing relevant methods of teaching, and using appropriate evaluation techniques.

There are several considerations such as the level of pupils' maturity and the urgency of the content selected that the teacher should firmly keep in mind when breaking down the unit into the detailed lesson plans. The methods indicated here are merely suggestive; The procedures put forward in this unit are intended as a general guide to teachers. There is room for flexibility, and individual interpretation is left to the teacher who has to make the final decisions based on the specific situation.

Objectives	Content / Methods
<p>1. To understand the significance of the historical changes from the limited concept of population welfare to the global concern about population control (a change from the 'historical' view of family planning as a form of health care to its role within a socio-economic development context).</p>	<p>1. Most if not all, of the existing bodies, agencies as mentioned in the contents concerning objective mother and child welfare problems and activities.</p> <p>2. The main problem of population control is to attain between population and resources and between population and economic development.</p> <p>3. Why a balance? Comparison between the Indonesian two different periods of time, namely - the population situation in 1961 and the situation in 1969.</p> <p>When will it be doubled? Population characteristics; distribution of population; the effect of concentration in Java and the urban area; birth-rate and its relation to the rapid population growth; dependence on per capita income.</p> <p>4. Simple comparison with neighbouring countries, e.g. Japan.</p> <p>(Methods: Lecture-discussion; Interview with mothers; learning; Assignment and project methods).</p>
<p>2. To understand the functions and status of existing bodies, institutions and agencies concerned with population control and related problems.</p>	<p>1. <u>Name</u>: <i>Mother and Child Health Center</i></p> <p><u>Function</u>: To provide guidance on taking care of children and babies, and how to provide better living during pregnancy - maternal period.</p> <p><u>Status</u>: Government.</p> <p>2. <u>Name</u>: <i>National Co-ordinating Board of Family and Child Development</i></p> <p><u>Function</u>: Participate in formulating general policies to meet the needs of the child, physical as well as mental, and the development of his personality; effective co-operation with other agencies.</p>

Objectives	Content / Methods
<p>the significance of changes from the concept of population welfare to a global concern about population control (a change from the traditional view of family size to a new form of health care within a socio-economic context).</p>	<ol style="list-style-type: none"> 1. Most if not all, of the existing bodies, agencies and institutions, as mentioned in the contents concerning objective No.2, deal with mother and child welfare problems and activities. 2. The main problem of population control is to attain ideal harmony between population and resources and between population growth and economic development. 3. Why a balance? Comparison between the Indonesian population in the two different periods of time, namely - the population situation in 1961 and the situation in 1969. When will it be doubled? Population characteristics of Indonesia: distribution of population; the effect of concentration of population in Java and the urban area; birth-rate and death-rate, its relation to the rapid population growth; dependency ratio; per-capita income. 4. Simple comparison with neighbouring countries, e.g. Philippines, Japan. <p>(Methods: Lecture-discussion; Interview with mothers; Simulation learning; Assignment and project methods).</p>
<p>the functions and existing bodies, institutions, agencies concerned with population control and rela-</p>	<ol style="list-style-type: none"> 1. <u>Name:</u> <i>Mother and Child Health Center</i> <u>Function:</u> To provide guidance on taking care of children, especially babies, and how to provide better living during the period of pregnancy - maternal period. <u>Status:</u> Government. 2. <u>Name:</u> <i>National Co-ordinating Board of Family and Child Welfare</i> <u>Function:</u> Participate in formulating general policies on meeting the needs of the child, physical as well as mental, to ensure the development of his personality; effective co-operation with various

Objectives

Content / Methods

ministries and private organizations in the field of family welfare; formulate constitutions as was assigned by the Ministry of Social Welfare.

Status: Government.

3. Name: *Indonesian Planned Parenthood Association*

Function: Administrative and policy guidance for national training centre and 6 provincial training centres; development of field practice; demonstration areas; implementation of a field workshop programme.

Status: Private.

4. Name: *National Family Planning Co-ordinating Body*

Function: Overall programme co-ordination and planning; development of national family planning policies; co-ordinate foreign and domestic financial commodity, advisory and training inputs.

Status: Government.

5. Name: *Tjikini Foundation*

Function: Concerned with family planning programmes and population education programmes.

Status: Private.

6. Name: *Institute of Population Education, IKIP, Bandung*

Function: To render service in population problems; training of specialized population workers; production and dissemination of printed materials; conducting research on various aspects of population education such as motivation, efficiency of programme implementation, establish a clearing house for exchange of ideas and information.

(Methods: Lecture-discussion; Use of resource persons; Visit institutions, bodies and agencies; demonstration).

Objectives	Content / Methods
<p>3. To understand contemporary national policy and programmes towards population.</p>	<ol style="list-style-type: none"> 1. <i>Five Year Development Plan</i>, Indonesia, Chapter XI (Planning Programme). 2. <i>Five Year Development Plan</i>, Indonesia, Chapter XI (transmigration). 3. The types of problems most likely to be found in areas. 4. Each particular situation requires certain types of adjustment from every member of society. 5. The problem arising from over-population requires life adjustment, quite different from the life pattern by a situation of under-population. <p>(Methods: Visits to clinics; operations building for planning; discussion; socio-drama).</p>
<p>4. To develop a desire to co-operate with the different agencies, government and private, promoting population control.</p>	<ol style="list-style-type: none"> 1. Different agencies have different targets and responsibilities. 2. Agencies cannot do much without positive support from the community. 3. Each member of the society can do an important job with and contributing to the different agencies in population control. <p>(Methods: As above).</p>
<p>5. To support government policy and programmes on population control and population education.</p>	<ol style="list-style-type: none"> 1. Demographic characteristics of Indonesia today need attention due to the rapid increase of population.

Objectives	Content / Methods
and contemporary national programmes towards	<ol style="list-style-type: none"> 1. <i>Five Year Development Plan</i>, Indonesia, Chapter XI (on Family Planning Programme). 2. <i>Five Year Development Plan</i>, Indonesia, Chapter XIV (on migration/transmigration). 3. The types of problems most likely to be found in under-populated areas. 4. Each particular situation requires certain types of life adjustment from every member of society. 5. The problem arising from over-population requires other types of life adjustment, quite different from the life pattern required by a situation of under-population. <p>(Methods: Visits to clinics; operations building for development planning; discussion; socio-drama).</p>
a desire to co-operate different agencies, and private, promoting control.	<ol style="list-style-type: none"> 1. Different agencies have different targets and responsibilities. 2. Agencies cannot do much without positive support from the society. 3. Each member of the society can do an important job by co-operating with and contributing to the different agencies in promoting population control. <p>(Methods: As above).</p>
government policy and population control education.	<ol style="list-style-type: none"> 1. Demographic characteristics of Indonesia today need special attention due to the rapid increase of population.

Objectives	Content / Methods
	<p>2. Educational opportunities are limited. Indonesian manpower is poorly developed and rather unproductive.</p> <p>3. Ability to produce more food to feed the ever-increasing population is lagging behind, causing serious problems in development.</p> <p>4. The Government has made a firm decision to remedy the situation, as shown in the overall development plan which calls for the support of every citizen.</p> <p>5. To enable the Government to plan and execute population policy, research efforts have to be made and more detailed statistical data have to be provided.</p> <p>(<u>Methods</u>: Lecture-discussion).</p>

Type of instructional material: Teachers' Guide

Subject: Social Studies (Unit: Population)

Age group/level: Secondary (Lower)

The impact of rapid population growth on the socio-cultural life of the people

Objectives : To develop an understanding of the possible implications of poor-quality social, cultural and economic life of the people; the possible adverse effects of rapid population growth to quality in education. To develop skills in collecting, analysing and interpreting data related to population, school enrolment budgets; how to interview people and conduct surveys. To develop an appreciation of the importance of education and its value in promoting a better quality of life. To limit population growth in order to improve quality in education (in the Philippines).

Content : 1. Meaning of rapid population growth; how growth-rate is derived: with a population in the Philippines of 36 million and an annual growth-rate of 3.5% compounded, how many years added to the population every year, what the population will be in a certain number of years it will take to double the population.

2. The present education situation in the country - free compulsory public education and its results, percentage of literacy, level of educational attainment of the average Filipino; data on the total population of elementary-school-age children; also data on the elementary school enrolment for the last seven years; (at the municipal, provincial or national level); the percentage of children in school and reasons for not attending school; comparison of Grade I enrolment earlier with the present Grade VI enrolment who are to finish this school; age of dropouts, reasons for dropout.

3. Rapid population growth gives rise to several education problems such as overcrowding that arise when there are more pupils seeking enrolment than can be accommodated in a classroom, when there are not enough teachers hired by the government to teach, when there are not enough funds to buy books or revise outdated curriculum guides; when children of a family are sent to school at the same time. Possible consequences of rapid population growth on the quantity and quality of education - low level of

ctional material: Teachers' Guide

al Studies (Unit: Population)

i: Secondary (Lower)

The impact of rapid population growth on the socio-cultural life of the people

- : To develop an understanding of the possible implications of poor-quality education on the social, cultural and economic life of the people; the possible adverse contribution of rapid population growth to quality in education. To develop skills in collecting, symbolising, analysing and interpreting data related to population, school enrolment and school budgets; how to interview people and conduct surveys. To develop an appreciation of the importance of education and its value in promoting a better quality of life; the need to limit population growth in order to improve quality in education (in the context of the Philippines).
- : 1. Meaning of rapid population growth; how growth-rate is derived: with a present population in the Philippines of 36 million and an annual growth-rate of 3.5% the number of babies added to the population every year, what the population will be in 10 years; the number of years it will take to double the population.
- 2. The present education situation in the country - free compulsory public elementary education and its results, percentage of literacy, level of educational attainment of the average Filipino; data on the total population of elementary-school-age children (7-12) and also data on the elementary school enrolment for the last seven years; (figures may be municipal, provincial or national level); the percentage of children in school; out-of-school and reasons for not attending school; comparison of Grade I enrolment of six years earlier with the present Grade VI enrolment who are to finish this school year; the percentage of dropouts, reasons for dropout.
- 3. Rapid population growth gives rise to several education problems such as the problems that arise when there are more pupils seeking enrolment than can be accommodated in the classroom, when there are not enough teachers hired by the government to teach; when there are not enough funds to buy books or revise outdated curriculum guides; when all the children of a family are sent to school at the same time. Possible consequences of a rapid population growth on the quantity and quality of education - low level of educational

attainment, poor quality of education, increasing number of dropouts, high cost
tion.

4. Effects of low level of education on cultural development; an illiterate citizen's liability in the social and economic development of the country; cannot have meaningful participation in government and community affairs, will not be ready to accept and participate in developmental programmes; will not be a source of quality labour.

5. Effects of the level of education on the quality of life - all other things being equal, a person with a higher educational attainment will tend to find a better job, receive a higher salary than one with a lower educational attainment; given the same kind of work to do, a person with higher training for that specific job will tend to be more efficient, produce better results and may encounter fewer problems than a man who is not specifically trained for the job.

Procedures

: 1. After a brief review of what rapid population means and what the present growth rate is, the class may calculate the increase in population within a given period of time. This exercise will make them aware of the fact that population is increasing very rapidly. Making a graph will reinforce this.

2. Research in the library about the education situation, its percentage of literacy, etc. Pupils may submit written reports and hold a class discussion on the topic. A pupil may be designated as a discussion leader.

3. Dividing the community by streets or blocks, pupil-groups may be assigned to investigate at least 5 families in the community each to find out the following data: number of children going to school; the respective grade of each child; number and age of elementary school age children not going to school; reasons why children do not attend school; level of educational attainment of the father and mother.

Results may be reported in class for discussion; graphs may be prepared to represent the survey findings. The possible errors such as small sampling and quality of the data collected may be discussed.

4. Study in class, charts presenting the number and percentage of 7-12 years old children enrolled in the elementary and the projected grade-to-grade survival percentage in elementary schools for the last ten years, and discuss what the figures in the charts indicate. The class may formulate conclusions about the literacy percentage and the level of educational attainment of the country.

attainment, poor quality of education, increasing number of dropouts, high cost of education.

Effects of low level of education on cultural development; an illiterate citizenry; a lack of ability in the social and economic development of the country; cannot have meaningful participation in government and community affairs, will not be ready to accept and support developmental programmes; will not be a source of quality labour.

Effects of the level of education on the quality of life - all other things being equal, a person with a higher educational attainment will tend to find a better job, receive a higher salary than one with a lower educational attainment; given the same kind of work to do, a person with higher training for that specific job will tend to be more efficient, produce better results and may encounter fewer problems than a man who is not specially trained for the job.

After a brief review of what rapid population means and what the present growth-rate is, the class may calculate the increase in population within a given period of time. This exercise will make them aware of the fact that population is increasing very rapidly. Making a graph will reinforce this.

Research in the library about the education situation, its percentage of literacy. They may submit written reports and hold a class discussion on the topic. A pupil may act as discussion leader.

Dividing the community by streets or blocks, pupil-groups may be assigned to survey at least 5 families in the community each to find out the following data: number of 7-12 years old children going to school; the respective grade of each child; number and age of elementary school age children not going to school; reasons why children do not attend school; level of educational attainment of the father and mother.

Results may be reported in class for discussion; graphs may be prepared to represent the survey findings. The possible errors such as small sampling and quality of the data should be discussed.

Study in class, charts presenting the number and percentage of 7-12 years old population enrolled in the elementary and the projected grade-to-grade survival percentage in public elementary schools for the last ten years, and discuss what the figures in the chart mean. The class may formulate conclusions about the literacy percentage and the level of educational attainment of the country.

5. Identify the education problems implied in the following situations: (i) there are seven children in the family whose ages range from 5 to 15. Father earns five pesos a day and is the only breadwinner; (ii) there are two families, namely A and B with the same income. Family A has 3 children and Family B has 8 children. All children are of school age. Who will have better educational opportunities? (iii) father has to feed 9 children and his income is only 50 cavans of rice a year. He could hardly make both ends meet. He asked his elder sons to quit studying after finishing Grade VI so they can find jobs to help support the family members.
6. List in class discussion educational problems arising from rapid population growth.
7. A group of pupils may be asked to interview the principal of a nearby elementary school to find out the following: number of pupils in each class; how many hours pupils stay in school; book-pupil ratio; number of toilets, drinking facilities in proportion to the school enrolment; number of dropouts by grades; teacher-pupil ratio; educational qualifications of the teachers (whether they are BSEE, BSE, Teachers' Certificate or under-graduate).
The group may report results of the interview by using graphs and charts if possible. The class will identify problems reflected in the educational situation *in that particular school*.
8. Pupils may be asked to list their personal observations and experience about the problems existing in their own school and in their own class using the items mentioned above as guidelines.
9. Gather data on the education budget and population (national or provincial or municipal) for the last five years and discuss them in class and tabulate the data to see: rate of growth of the community population; child population; school population.
10. Total class discussions on the importance of a literate citizenry in the cultural development of the country.
11. Write essays on "Education and Quality of Life".
12. Collect pictures and news clippings related to rapid population and its effects on the quality of education to be made into a scrapbook.
13. Charts, graphs, and other graphic materials to be displayed in the bulletin board.
14. Prepare a compiled report on the findings, conclusions, agreements about the unit.

Type of instructional material: Teachers' Guide

Subject: Social Studies (Unit: Population Growth and Quality of Life)

Age group/level: Secondary (Middle/Upper)

Economic consequences of rapid population growth

Introduction

: The unit is to be viewed as a sequence of the learning activities on Population Life Education that has a formal beginning at the primary level. It is suggested that before attempting to introduce the unit in the classroom the teacher will administer a quiz to the pupils to find out their level of understanding of basic geographic concepts and their implications in relation to rapid population-growth. It may include areas like: population size, characteristics of population (distribution, population, density, migration, birth-rate, death-rate, natural increase, age-structure, advantages and disadvantages of small and extended families, determinants of quality of life and relation of family size to quality of life. The performance of the quiz will indicate whether to introduce the unit or not. If the teacher thinks that a brief review of the concepts is necessary, a mini-unit may be introduced first, comprising the basic and related information essential for meaningful participation and understanding of the concepts in this unit.

It may be a little difficult to handle the contents with pupils who have not been introduced to the rudiments of economics although an attempt is made to simplify the economic concepts and concepts. In such a case, it will be advisable to introduce the unit at a preliminary level.

Care should be taken in translating the contents into teaching sequences in individual countries, considering the very complex inter-actions that may occur between rapid population growth and the economies of a particular country. In some instances, for particular countries, some of the relationships indicated may be non-existent or even the opposite of those indicated.

Objectives

: Developing an understanding that rapid population growth today means a larger population of people in the younger age-group; the younger age population are consumers but also producers; a rapid increase in the growth-rate means more and more people in the consumer group compared with the producer group. The dependency ratio grows; whatever is produced is either consumed or not consumed, whatever is not consumed is savings; a large proportion of the population in the consumer group means consumption of larger proportion of the total production.

al material: Teachers' Guide

udies (Unit: Population Growth and Quality of Life)

secondary (Middle/Upper)

Economic consequences of rapid population growth

The unit is to be viewed as a sequence of the learning activities on Population and Family Life Education that has a formal beginning at the primary level. It is suggested, however, that before attempting to introduce the unit in the classroom the teacher will do well to administer a quiz to the pupils to find out their level of understanding of basic demographic concepts and their implications in relation to rapid population-growth. The quiz may include areas like: population size, characteristics of population (distribution of population, density, migration, birth-rate, death-rate, natural increase, age-pyramid etc.), advantages and disadvantages of small and extended families, determinants of quality of life and relation of family size to quality of life. The performance of the pupils will indicate whether to introduce the unit or not. If the teacher thinks that a brief review of the concepts is necessary, a mini-unit may be introduced first, comprising the concepts and related information essential for meaningful participation and understanding of the concepts in this unit.

It may be a little difficult to handle the contents with pupils who have not been exposed to the rudiments of economics although an attempt is made to simplify the economic terms and concepts. In such a case, it will be advisable to introduce the unit at a later stage.

Caution should be taken in translating the contents into teaching sequences in individual countries, considering the very complex inter-actions that may occur between rapid population-growth and the economies of a particular country. In some instances, for particular countries, some of the relationships indicated may be non-existent or even the opposite of those indicated.

Developing an understanding that rapid population growth today means a larger percentage of people in the younger age-group; the younger age population are consumers but very few are producers; a rapid increase in the growth-rate means more and more people in the consumer group compared with the producer group. The dependency ratio grows; whatever is produced is either consumed or not consumed, whatever is not consumed is savings; a larger percentage of the population in the consumer group means consumption of larger proportion of production,

leaving a smaller portion for savings; the savings may be used or kept unused; using savings is to invest them for productive purposes; productive investment is the building up of more factories and machinery necessary for production; economic growth tends to decrease the quantum of savings which in turn decreases the quantum for investment; the growth of production is mainly dependent upon investment; with less investment, there will be less increase of production; production per capita income (called per capita income) is a rough index of the economic situation; per capita income will rise less rapidly (or may even fall) when production is slow (due to less investment, due to less savings, due to more consumers relative to producers).

Developing the skill of collecting data from various sources like census reports, death registers, annual statistical surveys, annual budget reports and surveys conducted by both national and international agencies; of presenting data in various forms like charts, bars, graphs, etc.; interpreting data especially those relating to demographic concepts like dependency ratio; making projections with different kinds of data; preparing an annual budget report; calculating per capita income.

Developing a positive attitude toward rational demographic decision-making.

Content

1. The concept of rapid population-growth - focus on the point that more children in infant mortality rate mean large numbers of children. When there is a high birth rate and a high infant mortality rate, the number of children in the population, the younger age-group becomes larger in relative size.
2. Family income and expenditure - who earns and who spends; how does it affect the family? What happens when a new baby is born in the family? Meaning of 'consumption' and 'production'. Distinction between consumer and consumer-cum-producer. Point out that most of the younger age-group population are essentially consumers.
3. Relationship between rapid population-growth and consumer group - rapid population-growth-rate adds more and more people in the young consumer group. Concept of dependency ratio - increase in the producer group being relatively slow, the consumer group becomes larger compared to producer group - the dependency ratio grows. Focus on the dependency ratio of a given country. Point out that the dependent group includes the younger age-group and the older age-group population, but emphasize that the majority of the dependent group belongs to the younger age-group population.
4. Meaning of saving - whatever is produced is either consumed or not consumed. Savings is that which is not consumed is savings. Actual savings of a family. Relationship of savings to the number of people in a family.

leaving a smaller portion for savings; the savings may be used or kept unused; one way of using savings is to invest them for productive purposes; productive investment includes the building up of more factories and machinery necessary for production; rapid population-growth tends to decrease the quantum of savings which in turn decreases the opportunities for investment; the growth of production is mainly dependent upon investment. Therefore, with less investment, there will be less increase of production; production divided by population (called per capita income) is a rough index of the economic situation of a country; per capita income will rise less rapidly (or may even fall) when production grows very slowly (due to less investment, due to less savings, due to more consumers relative to producers).

Developing the skill of collecting data from various sources like census reports, birth and death registers, annual statistical surveys, annual budget reports and surveys carried out by both national and international agencies; of presenting data in various visual forms like charts, bars, graphs, etc.; interpreting data especially those related to demographic concepts like dependency ratio; making projections with different kinds of data; reading an annual budget report; calculating per capita income.

Developing a positive attitude toward rational demographic decision-making.

1. The concept of rapid population-growth - focus on the point that more births and decrease in infant mortality rate mean large numbers of children. When there is a large number of children in the population, the younger age-group becomes larger in relation to population size.
2. Family income and expenditure - who earns and who spends; how does it affect the life in the family? What happens when a new baby is born in the family? Meaning of 'consumption' and 'production'. Distinction between consumer and consumer-cum-producer. Emphasis on the point that most of the younger age-group population are essentially consumers.
3. Relationship between rapid population-growth and consumer group - rapid increase in growth-rate adds more and more people in the young consumer group. Concept of dependency ratio - increase in the producer group being relatively slow, the consumer group becomes larger compared to producer group - the dependency ratio grows. Focus on an actual dependency ratio of a given country. Point out that the dependent group includes both the younger age-group and the older age-group population, but emphasize that the great majority of the dependent group belongs to the younger age-group population.
4. Meaning of saving - whatever is produced is either consumed or not consumed. Whatever is not consumed is savings. Actual savings of a family. Relationship of savings to the number of people in a family.

5. Presentation of population data of a country for different years. Comparison of young consumer group population data showing the actual increase at different points in the time continuum. The effects of a growing young consumer group: consumption of larger portion of production leaving smaller portion as savings.

6. What is done with savings - savings may be used, or kept unused. The different ways of using or hoarding savings in a particular region and the reasons for it. The various methods of the use of savings. The benefits of the uses of savings.

7. Presentation of population data of a country showing the increase in different years - Increase in population necessitates manyfold increase and expansion of services like housing, health and education. More expenditure in service sectors tends to decrease the quantum of savings which in turn decreases the opportunities for investment in other sectors.

8. Discussion of investment for service purposes - Competitive demands for investment between service sector and industrial sector. Rapid population-growth means increasing investment in the service sector.

9. A simple definition of GNP - the sum total of production in a particular period. Presentation of GNP figures of different financial years of a country. Introduction of the term per capita income - example of actual per capita income of a country. How to find out per capita income from country data? Relationship of per capita income to population sizes. Relationship of population-growth to per capita income - rapid population-growth tends to both slow down the growth of production (the numerator of per capita income) and increases the population (the denominator); both result in a decrease (or at least a decrease compared with the potential increase) of per capita income.

Sample Lesson Plan

Unit topic: Economic consequences of rapid population-growth

Lesson topic: Rapid population growth and the younger age population

Time: One lesson period

Objectives	Content	Teacher-Pupil Activities
<p>Understand that rapid population growth means a larger percentage of people in the younger age-group.</p> <p>Be able to present data in the form of a chart.</p>	<p>The concept of rapid population growth - focus on the point that more births and decrease in infant mortality rate mean a larger number of children. When there is a large number of children in the population, the younger age-group becomes larger in relation to population size.</p>	<p>To introduce the concept of rapid population growth the teacher can show a filmloop. If a filmloop is not available, a chart showing the birth-rate can be shown in the classroom. The teacher will be asked to read the chart and discuss the increase in numbers. A discussion on the focus of attention being on births coupled with decrease in mortality rate means a larger number of children.</p> <p>The teacher will then make available the population data of the country. The pupils will be asked to prepare a chart in relation to age-wise distribution of the country.</p> <p>A comparison of charts (one prepared by the teacher and the other by the pupils) will give a clearer picture of the younger age group in relation to growth-rate and decline in mortality rate is expected to emerge.</p>

Sample Lesson Plan

Economic consequences of rapid population-growth

Topic: Rapid population growth and the younger age population

Lesson period

Objectives	Content	Teacher-Pupil Activities
<p>That rapid population-growth means a percentage of the younger age-group in the population. Present data of a chart.</p>	<p>The concept of rapid population growth - focus on the point that more births and decrease in infant mortality rate mean a larger number of children. When there is a large number of children in the population, the younger age-group becomes larger in relation to population size.</p>	<p>To introduce the concept of rapid population-growth, the teacher can show a filmloop that presents the rapid population growth in the form of a chart. If a filmloop is not available, a chart prepared by the teacher with data from a country having a high birth-rate can be shown in the class. The pupils will be asked to read the chart and describe the increase in numbers. A discussion will follow - the focus of attention being on the point that more births coupled with decrease in infant mortality rate means a larger number of children.</p> <p>The teacher will then make available to the class the population data of the country. The pupils will be asked to prepare a chart and interpret the chart in relation to age-wise distribution of population of the country.</p> <p>A comparison of charts (one presented by the teacher and the other by the pupils) will be made - a clearer picture of the younger age population in relation to growth-rate and declining infant mortality rate is expected to emerge.</p>

Type of instructional materials: Teachers' Guide

Subject: Social Studies (Unit: Population)

Age group/level: Secondary (Upper)

Population

In each of the following sub-units a syllabus or general outline only is given. The outline is not exhaustive. There are very many inter-acting and variable patterns in the relationships between population-growth and the factors listed. In some instances, for particular countries, the relationships in the syllabus may be non-existent or even the opposite of those indicated. Great care will have to be taken in translating these outlines to the specific instructional sequences for particular countries.

Sub-unit 1. Demographic concepts of population-growth

Introduction : The purpose of this unit is to impart some knowledge to pupils about demography and population-growth which will help them to understand the process and problems of population-growth. The pupils will make their own analyses of major factors which influence the rate of population growth.

Objectives : Developing an understanding of the present demographic situation in the country and the world; the distribution of the population in the country - its comparison with other countries - developed and developing; the determinants of population-growth; the birth-rate (fertility) and decreasing death-rate; demographic transition; the factors influencing population-growth in the country and in the region; the relationships and inter-relationships between family size and population growth; the methods of calculating population-growth.

Developing the ability to read charts, graphs, maps and demographic data and to compare and contrast them; calculate various kinds of elementary demographic statistics; birth-rate, death-rate, rate of growth; translate demographic data into graphs; examine critically the present demographic transition of one's own country, and of other countries in the world.

Developing an appreciation of the global nature of the population problem; the need for providing correct information; the demographic situation of the country, and of other countries; attitude towards the need for a small family size; a sense of responsibility towards the individual's role in tackling the population problem.

al materials: Teachers' Guide

udies (Unit: Population)

secondary (Upper)

Population

Following sub-units a syllabus or general outline only is given. The outline is not exhaustive very many inter-acting and variable patterns in the relationships between rapid population factors listed. In some instances, for particular countries, the relationships indicated may be non-existent or even the opposite of those indicated. Great care will have to be taken in the outlines to the specific instructional sequences for particular countries.

Sub-unit 1. Demographic concepts of population-growth

The purpose of this unit is to impart some knowledge to pupils about demographic concepts of population growth which will help them to understand the process and problems of population-growth. The pupils will make their own analyses of major factors which could reduce the rate of population growth.

Developing an understanding of the present demographic situation in the country, region, the world; the distribution of the population in the country - its comparison with other countries - developed and developing; the determinants of population-growth; quasi-constant birth-rate (fertility) and decreasing death-rate; demographic transition; the perspectives of population-growth in the country and in the region; the relationships and interactions between family size and population growth; the methods of calculating population-growth.

Developing the ability to read charts, graphs, maps and demographic data and to interpret, compare and contrast them; calculate various kinds of elementary demographic indices e.g. birth-rate, death-rate, rate of growth; translate demographic data into graphic form; examine critically the present demographic transition of one's own country, region and the world.

Developing an appreciation of the global nature of the population problem; the necessity for providing correct information; the demographic situation of the country, a positive attitude towards the need for a small family size; a sense of responsibility regarding the individual's role in tackling the population problem.

Syllabus

1. Definition and meaning of population, birth-rate, death-rate, rate of (and absolute).
2. Factors determining population-growth; absolute number of births; absolute deaths; absolute number of migrants.
3. Population-growth because of: excess of births over deaths, excess of emigrants.
4. Demographic calculations: Crude birth-rate - annual number of live births per 1000 population; crude death-rate - annual number of deaths per 1000 population; infant mortality rate - annual number of children who died (under one year) divided by 1000 during the year.
5. Reasons for rapid growth of population: birth-rate is high because of factors such as early marriage, non-control of fertility during procreation age; death-rate is low because of many factors such as modern health facilities, effective control of diseases, better nutrition.
6. Relationship between static and dynamic aspects of population: geographical distribution and density (urban areas, rural areas, crude density, biological density); age distribution (per cent of population under 15 years and over 65 years, age dependency ratio); marital status (universality of marriage); distribution of literacy; economic sector distribution (agriculture, industry, services); ethnic-linguistic distribution.
7. Demographic transition (in the descriptive sense, not as theory): stages of transition (high mortality; high fertility/ falling mortality, falling fertility/low mortality); relevance to developing countries.
8. Inter-relations of demographic features and their implications.

Activities

1. Use of actual data pertaining to one's own country, region and the world.
2. Collection of data by both the teachers and pupils from various sources.
3. Calculations of different indices, rates, ratios may be introduced at appropriate stages.
4. Class discussions on: the definition and meanings of various terms and concepts in this unit; the importance of demographic calculation; the gap between theory and practice.

- : 1. Definition and meaning of population, birth-rate, death-rate, rate of growth (natural and absolute).
 2. Factors determining population-growth; absolute number of births; absolute number of deaths; absolute number of migrants.
 3. Population-growth because of: excess of births over deaths, excess of immigrants over emigrants.
 4. Demographic calculations: Crude birth-rate - annual number of live births per 1000 population; crude death-rate - annual number of deaths per 1000 population; infant mortality rate - annual number of children who died (under one year) divided by total live births during the year.
 5. Reasons for rapid growth of population: birth-rate is high because of many factors such as early marriage, non-control of fertility during procreation age; death-rate is low because of many factors such as modern health facilities, effective control of diseases, better nutrition.
 6. Relationship between static and dynamic aspects of population: geographical distribution and density (urban areas, rural areas, crude density, biological density); age-sex distribution (per cent of population under 15 years and over 65 years, relationship between age distribution and dependency ratio); marital status (universality and precocity of marriage); distribution of literacy; economic sector distribution (agriculture, industry, services); ethnic-linguistic distribution.
 7. Demographic transition (in the descriptive sense, not as theory): stages (high fertility/ high mortality; high fertility/ falling mortality, falling fertility/falling mortality; low fertility/low mortality); relevance to developing countries.
 8. Inter-relations of demographic features and their implications.
- : 1. Use of actual data pertaining to one's own country, region and the world at various times.
 2. Collection of data by both the teachers and pupils from various sources.
 3. Calculations of different indices, rates, ratios may be introduced at relevant places.
 4. Class discussions on: the definition and meanings of various terms and concepts used in this unit; the importance of demographic calculation; the gap between high birth-rate

and low death-rate; determinants of population dynamics; causes leading to the demographic transition; the role of the individual and the family in the demographic transition especially in one's own country; ideal family size; future trends population.

5. Pupils may draw graphs, charts, maps, diagrams, as home-work which can be discussed in class.
6. Pupils may prepare simple questionnaires on age, sex, marital status, family size, etc. which may then be used to interview a few selected families.
7. Charts, graphs, maps and diagrams prepared by pupils and teachers may be put on display in the class room.
8. Pupils may prepare a final report on the findings of various discussions.
9. Debates and group discussions may be organized.

Reference materials

1. Human geographical map of the country.
2. Charts, graphs, diagrams showing: population distribution; trends of birth-rate and rate of growth; migration figures; the gap between birth-rate and death-rate; population density of population in urban and rural areas of selected places and times; population pyramids of developed and developing countries; projections of population.

Assignment/ Evaluation

1. Questions on the population situation:
 - (a) What is the total population of your city, village, country and world?
 - (b) Is the population growing or decreasing and why?
 - (c) How many children can a woman bear during marital life? Can she limit this?
 - (d) What is ideal size of a family for your country?
2. Questions on demographic concepts:
 - (a) What do you understand by crude birth-rate, death-rate, natural rate of population growth?
3. Questions on causes of population-growth:
 - (a) What will happen if fertility is not controlled and the death-rate goes on increasing?
 - (b) How can a high-rate of population growth be prevented?
 - (c) What will be the advantages of a small family size to your country?

and low death-rate; determinants of population dynamics; causes leading to the demographic transition; the role of the individual and the family in the demographic transition especially in one's own country; ideal family size; future trends population.

Pupils may draw graphs, charts, maps, diagrams, as home-work which can be discussed in class.

Pupils may prepare simple questionnaires on age, sex, marital status, family size. These may then be used to interview a few selected families.

Charts, graphs, maps and diagrams prepared by pupils and teachers may be put on the bulletin board.

Pupils may prepare a final report on the findings of various discussions.

Debates and group discussions may be organized.

Human geographical map of the country.

Charts, graphs, diagrams showing: population distribution; trends of birth-rate, death-rate and rate of growth; migration figures; the gap between birth-rate and death-rate; density of population in urban and rural areas of selected places and times; age and sex pyramids of developed and developing countries; projections of population.

Questions on the population situation:

- (a) What is the total population of your city, village, country and world?
- (b) Is the population growing or decreasing and why?
- (c) How many children can a woman bear during marital life? Can she limit this number?
- (d) What is ideal size of a family for your country?

Questions on demographic concepts:

- (a) What do you understand by crude birth-rate, death-rate, natural rate of population-growth?

Questions on causes of population-growth:

- a) What will happen if fertility is not controlled and the death-rate goes on decreasing?
- b) How can a high-rate of population growth be prevented?
- c) What will be the advantages of a small family size to your country?

Sub-unit 2. Trends of population-growth

Introduction

: This unit is intended to provide pupils with a basic knowledge and understanding of population changes based on changes of rates of birth, death and migration. It aims to motivate the pupils to find the causes of the present population trends and to anticipate the future trends in population-growth. Through this unit, pupils are helped to understand the magnitude of this problem so that they ultimately develop certain positive attitudes toward it.

Objectives

: Developing an understanding of the components of population evolution; the role of population-growth with reference to the situation in the country; the role of population-growth in the history of the world; the special features leading to rapid growth of population; the various demographic approaches on population trends; the effects of population-growth on human life in the future.

Developing the ability to read and interpret charts, graphs and maps on population-growth; make comparative study of population changes in our country, and assess the desirable factors for favourable rate of population-growth; develop skill in collecting various kinds of data of population census, surveys and registrations, as well as skill in preparing charts, graphs and maps on population-growth.

Developing an appreciation of particular demographic changes and trends; a stable future rate of growth; the values of data gathering about population-growth for accuracy; a concern about the global nature of population problems; a responsibility regarding the role of individuals in slowing down the rate of population-growth.

Syllabus

1. Definition and meaning of trends in population-growth.
2. Outline of the history of population-growth in one's own country, region and the world: evolution of population-growth; major causes for rapid changes of structure by age and sex.
3. Data gathering on population: population censuses and surveys (uses of surveys, importance of timing, and places for conducting censuses and registrations (types of civil registrations, uses of civil registrations, censuses and surveys; quality of the data.

Sub-unit 2. Trends of population-growth

- : This unit is intended to provide pupils with a basic knowledge and understanding of population changes based on changes of rates of birth, death and migration. It will be worthwhile to motivate the pupils to find the causes of the present population explosion and to anticipate the future trends in population-growth. Through this unit, pupils may be helped to understand the magnitude of this problem so that they ultimately will develop certain positive attitudes toward it.
- : Developing an understanding of the components of population evolution; the nature of population-growth with reference to the situation in the country; the role of population-growth in the history of the world; the special features leading to rapid growth of population; the various demographic approaches on population trends; the effects of present rate of growth of population on human life in the future.

Developing the ability to read and interpret charts, graphs and maps of population distribution; make comparative study of population changes in our country, region and the world; assess the desirable factors for favourable rate of population-growth; analyse the causes of population-growth and its consequences to the welfare of the people; and developing skill in collecting various kinds of data of population census, surveys and civil registrations, as well as skill in preparing charts, graphs and maps on population-growth.

Developing an appreciation of particular demographic changes and transition; logical and stable future rate of growth; the values of data gathering about population and the need for accuracy; a concern about the global nature of population problems; a sense of responsibility regarding the role of individuals in slowing down the rate of population-growth.

- : 1. Definition and meaning of trends in population-growth.
- 2. Outline of the history of population-growth in one's own country, region, continent and the world: evolution of population-growth; major causes for rapid growth and changes of structure by age and sex.
- 3. Data gathering on population: population censuses and surveys (uses of censuses and surveys, importance of timing, and places for conducting censuses and surveys); civil registrations (types of civil registrations, uses of civil registrations); results of censuses and surveys; quality of the data.

4. Present trends in population-growth: the growth of population in a few developed and developing countries for the comparison of the population situation in one's own country with those of the developed and developing countries (population characteristics - developed countries, population characteristics - developing countries, the demographic transition).
5. Future trends (possibilities) of population-growth: continuation of decreasing birth-rate; decline in birth-rate (slow process, rapid process); two possible results of future population-growth (slow rate of population-growth, rapid rate of population-growth).

Activities

1. This unit will require the use of historical data on population pertaining to one's own country, region and world, at various times.
2. Collection of data by both the teachers and students from various sources.
3. Calculation of different rates of population movements.
4. Class discussions on: trends of population-growth; population-growth of one's own country; importance of population censuses, surveys and civil registrations for economic planning; can the rate of population-growth be reduced?; implications of population during economic slump periods in history; population in the year 2000 in one's own country and the world.
5. Pupils may draw graphs, charts, maps, diagrams, etc., as homework, to be discussed in class.
6. Pupils may prepare elementary questionnaires on sex, age, marital status and family size that may be used to interview one's own family, relatives and a few selected families.
7. Charts, graphs, maps and diagrams prepared by pupils and teachers may be put on the bulletin board.
8. Pupils may participate collectively in: preparing sample questionnaires; filling out questionnaires while interviewing; processing of results and data; preparing a report on the findings of various discussions.
9. Debates and group discussions may be organized based on: selected topics within the unit; results and findings of questionnaires.

Present trends in population-growth: the growth of population in a few developed and developing countries for the comparison of the population situation in one's own country with those of the developed and developing countries (population characteristics - developed countries, population characteristics - developing countries, the demographic transition).

Future trends (possibilities) of population-growth: continuation of decreasing death-rate; decline in birth-rate (slow process, rapid process); two possible results of future population-growth (slow rate of population-growth, rapid rate of population-growth).

This unit will require the use of historical data on population pertaining to one's own country, region and world, at various times.

Collection of data by both the teachers and students from various sources.

Calculation of different rates of population movements.

Class discussions on: trends of population-growth; population-growth of one's own country; importance of population censuses, surveys and civil registrations for socioeconomic planning; can the rate of population-growth be reduced?; implications of overpopulation during economic slump periods in history; population in the year 2000 A.D. in one's own country and the world.

Pupils may draw graphs, charts, maps, diagrams, etc., as homework, to be discussed in class.

Pupils may prepare elementary questionnaires on sex, age, marital status and family size that may be used to interview one's own family, relatives and a few selected families.

Charts, graphs, maps and diagrams prepared by pupils and teachers may be put on the bulletin board.

Pupils may participate collectively in: preparing sample questionnaires; filling in questionnaires while interviewing; processing of results and data; preparing final report on the findings of various discussions.

Debates and group discussions may be organized based on: selected topics within this unit; results and findings of questionnaires.

Reference
materials

- : 1. Human geographical map of one's own country and of the world.
2. Charts and/or graphs, diagrams showing: history of population distribution; birth-rate, death-rate and rate of growth; migration figures; present population-growth in the world; possibility of future trends in population-growth.
3. Other references: census and survey reports; yearly civil registrations publications; family planning reports and brochures; other government publications; Nations publications; questionnaires used in demographic censuses and surveys.

Assignment/
Evaluation

- : 1. Questions on the history of population-growth:
 - a) What were the major causes of rapid growth of population after the second world war?
 - b) What are advantages and disadvantages of having large populations?
 - c) Compare the age and sex structure of population in our country in two different censuses.
2. Questions on data gathering:
 - a) How are births and deaths registered in our country? How are they collated?
 - b) When were the first and last censuses conducted in our country? Draw the age structure of the population in those two censuses (or the most recent plus the first census for which sufficient data are available).
 - c) Where would you find the brochures of census and survey data of our country?
 - d) What are the uses of a questionnaire in a census?
3. Questions on present and future trends of population-growth:
 - a) Describe the present trends of population-growth in our country and compare with the situation found in a developed country.
 - b) What will be the consequences of gradual decline in death-rate and increase in birth-rate in our country in the near future?
 - c) Discuss the advantages and disadvantages of having a large dependent population country.

- : 1. Human geographical map of one's own country and of the world.
 - 2. Charts and/or graphs, diagrams showing: history of population distribution; trends of birth-rate, death-rate and rate of growth; migration figures; present trend of population-growth in the world; possibility of future trends in population-growth.
 - 3. Other references: census and survey reports; yearly civil registrations and departmental publications; family planning reports and brochures; other government reports; United Nations publications; questionnaires used in demographic censuses and surveys.
- : 1. Questions on the history of population-growth:
 - a) What were the major causes of rapid growth of population after the second world war?
 - b) What are advantages and disadvantages of having large populations?
 - c) Compare the age and sex structure of population in our country in the last two censuses.
 - 2. Questions on data gathering:
 - a) How are births and deaths registered in our country? How are they then gathered and collated?
 - b) When were the first and last censuses conducted in our country? Draw the graphs of age structure of the population in those two censuses (or the most recent census plus the first census for which sufficient data are available).
 - c) Where would you find the brochures of census and survey data of our country?
 - d) What are the uses of a questionnaire in a census?
 - 3. Questions on present and future trends of population-growth:
 - a) Describe the present trends of population-growth in our country and compare them with the situation found in a developed country.
 - b) What will be the consequences of gradual decline in death-rate and rapid increase in birth-rate in our country in the near future?
 - c) Discuss the advantages and disadvantages of having a large dependency ratio in our country.

Sub-unit 3. Causes of the present population explosion

Introduction

: Our age is in the grip of a population explosion. This population explosion is a threat to the future of mankind. Responsible and sensible leaders all over the world feel alarmed at the seriousness of this situation and are trying to find ways to avert the collapse of mankind under the weight of its own numbers. One way of checking the rapid growth of population is the elimination of causes responsible for it. A wide range of factors has brought about the population explosion. It may not be possible nor even desirable to eliminate all of the causes. But some of the causes may be eliminated if the beliefs, attitudes and behaviour of the future generations of young people are changed through critical study of these causes in schools.

Objectives

: Developing understanding regarding traditional beliefs and social norms that encourage the growth of population and hinder the execution of programmes of population control; identifying environmental conditions of couples that influence their mating and child-bearing; identifying psycho-biological factors that contribute to the growth of population; economic conditions of families that impel them to produce large numbers of children; certain legal and political thinking and administrative policies that promote the growth of population; identifying better standards of living and improved medical facilities that reduce the rate of population growth.

Developing the ability to express one's ideas clearly; discuss ideas/beliefs in class; to construct questionnaires; interview people; conduct surveys; organize and report on findings; propagate action for population control; argue with opponents of population control.

Developing the desire for a small family; higher standards of living; economic security in old age through insurance and savings; the use of labour-saving technology; identifying laws and administrative policies; promoting belief in the ability of man to control the number of children; readiness to modify beliefs/norms; willingness to examine and discuss beliefs/social norms/political slogans; discontent with a subsistence-level of living; readiness to modify beliefs/norms.

Syllabus

: The following are some of the kinds of issues that may be discussed in class. Teachers may add issues relevant to individual countries.

Sub-unit 3. Causes of the present population explosion

Age is in the grip of a population explosion. This population explosion is a grave threat to the future of mankind. Responsible and sensible leaders all over the world are alarmed at the seriousness of this situation and are trying to find ways and means to avert the collapse of mankind under the weight of its own numbers. One way of checking the rapid growth of population is the elimination of causes responsible for it. A wide range of factors has brought about the population explosion. It may not be possible or even desirable to eliminate all of the causes. But some of the causes may be eliminated if the beliefs, attitudes and behaviour of the future generations of young people are changed through critical study of these causes in schools.

Developing understanding regarding traditional beliefs and social norms that encourage growth of population and hinder the execution of programmes of population control; environmental conditions of couples that influence their mating and child-bearing behaviour; socio-biological factors that contribute to the growth of population; economic motives of families that impel them to produce large numbers of children; certain legal practices, political thinking and administrative policies that promote the growth of population; higher standards of living and improved medical facilities that reduce the rate of mortality.

Developing the ability to express one's ideas clearly; discuss ideas/beliefs in a group; construct questionnaires; interview people; conduct surveys; organize and report ideas; initiate action for population control; argue with opponents of population control.

Developing the desire for a small family; higher standards of living; economic security; old age through insurance and savings; the use of labour-saving technology; changed laws and administrative policies; promoting belief in the ability of man to determine the number of children; readiness to modify beliefs/norms; willingness to examine traditional beliefs/social norms/political slogans; discontent with a subsistence-level of living; readiness to modify beliefs/norms.

Following are some of the kinds of issues that may be discussed in class. Teachers should add issues relevant to individual countries.

Pro-natality factors	Counter arguments
<p>1. <u>Traditional beliefs</u></p> <p>It is believed that as God is the creator of children. He is responsible for providing necessities of their life.</p> <p>It is believed that man is born with one mouth to feed but two hands to earn.</p> <p>It is believed that man is helpless in the matters of procreation and God decides the number of children to be born.</p> <p>It is believed that future developments in science and technology will help in supporting larger population.</p> <p>2. <u>Social norms</u></p> <p>Some people want a larger number of children for prestige or power in the community.</p> <p>3. <u>Economic influences</u></p> <p>Some people desire to have many children for greater economic security in old age.</p>	<p>God does care for the needs of children but directly. Parents have to worry and struggle of their children.</p> <p>Nothing is for man except what he strives for. God helps those who help themselves.</p> <p>Mouth needs feeding from the day of the birth while hands start earning twenty years after.</p> <p>Before hands start earning, huge investments in the upbringing, education, and training of children.</p> <p>Man is not helpless in matters of procreation to the extent he has the power, freedom, and knowledge to decide the number of children.</p> <p>Science and technology will have their own limitations in balancing the limited space and resources of the earth with ever-increasing numbers of population, and scientific facts assist in the planning for children.</p> <p>Social prestige or power in the community now depends on the quality of children rather than the number.</p> <p>More children can mean lower standards of living. Lower living standards means lower social prestige.</p> <p>More children means more economic burdens during the middle age, in terms of the children's living expenses and marriage costs.</p>



Pro-natal factors	Counter arguments
<u>Religious beliefs</u>	
Believed that as God is the creator of man. He is responsible for necessities of their life.	<p>God does care for the needs of children but seldom does so directly. Parents have to worry and struggle for the maintenance of their children.</p> <p>Nothing is for man except what he strives for.</p> <p>God helps those who help themselves.</p>
Believed that man is born with one hand and one foot but two hands to earn.	<p>Mouth needs feeding from the day of the birth of the child while hands start earning twenty years after birth.</p> <p>Before hands start earning, huge investments have to be made in the upbringing, education, and training of the child.</p>
Believed that man is helpless in matters of procreation and God determines the number of children to be born.	<p>Man is not helpless in matters of procreation. To a great extent he has the power, freedom, and know-how to determine the number of children.</p>
Believed that future developments in science and technology will help in supporting a larger population.	<p>Science and technology will have their own limitations in balancing the limited space and resources of this planet with ever-increasing numbers of population, and science must in fact assist in the planning for children.</p>
<u>Community influences</u>	
People want a larger number of children for social prestige or power in the community.	<p>Social prestige or power in the community now largely depends on the quality of children rather than the number of children.</p> <p>More children can mean lower standards of living, and lower living standards means lower social prestige.</p>
<u>Family influences</u>	
People desire to have many children for economic security in old age.	<p>More children means more economic burdens during the parents' middle age, in terms of the children's living, educational and marriage costs.</p>

Pro-natality factors	Counter arguments
<p>Agricultural work with primitive methods needs many human hands, therefore more children are desired.</p> <p>Handicrafts also need many hands and consequently handicraftsmen desire to produce a large number of children.</p> <p>Distrust of others in financial matters, dishonesty in the discharge of economic responsibilities for others, family-centredness in economic activities in certain societies, urge families to have large number of children for taking care of several economic interests of the family.</p>	<p>Farmers using modern technology do not need a large children.</p> <p>Modern but simple machines can greatly reduce the n many hands; in any case, there are already unemploy</p> <p>A modern society has instrumentalities to safeguard in these matters so family centredness is unnecessa</p>
<p>4. <u>Political factors</u></p> <p>Political leaders in certain countries plead for increase in manpower for defence against a more numerous enemy.</p> <p>In democracies the principle of one person - one vote motivates States/provinces/ regions and racial/religious/ethnic groups to compete in population-growth with the objective of gaining greater political power in the country.</p>	<p>The defence ability of a nation depends not only on of population but also on the morale, training, tech economic power of the nation.</p> <p>Over-population weakens the defence potential of a</p> <p>The baby boom may be the most dangerous bomb for a ultimate destruction.</p> <p>Constitutional safeguards can be provided to safegu minority and majority rights.</p>

factors	Counter arguments
<p>with primitive methods and, therefore more and many hands and craftsmen desire to rely on children.</p> <p>in financial matters, discharge of economic duties, family- economic activities in large families to have children for taking care of interests of the</p>	<p>Farmers using modern technology do not need a large number of children.</p> <p>Modern but simple machines can greatly reduce the need for many hands; in any case, there are already unemployed hands.</p> <p>A modern society has instrumentalities to safeguard its citizens in these matters so family centredness is unnecessary.</p>
<p>in certain countries a manpower for a more numerous enemy.</p> <p>principle of one per- centage States/provinces/ religious/ethnic groups population-growth with the greater political</p>	<p>The defence ability of a nation depends not only on the numbers of population but also on the morale, training, technology and economic power of the nation.</p> <p>Over-population weakens the defence potential of a nation.</p> <p>The baby boom may be the most dangerous bomb for a nation's own ultimate destruction.</p> <p>Constitutional safeguards can be provided to safeguard both minority and majority rights.</p>



Other pro-natality factors such as the following may be discussed: families in patriarchal societies have sex preference or a sense of sex equilibrium based on the value of girls in the marriage market. In an attempt to have this preference, the result is a large number of unwanted children; as the family name is passed on through generations, families want to have male child/children for the continuation of their name. Poverty and contentment with existing low standards of living (subsistence level) is a factor in large families; most of the women have the psychological urge of marriage, motherhood and children; chances of survival of some children are greater from a large number of children in a family; some parents produce large number of children to prove their genetic superiority and fertility; low legal age is responsible for a longer period of marital life and a consequently larger number of children; legal systems give preference or greater respect to a male child for purposes of inheritance; government policies regarding child health, exemption, maternity facilities, rations, etc. induce parents to produce more children.

Anti-natality factors such as the following may be discussed: better diet, improved housing have improve the health of the people; expansion in educational and recreational facilities and social welfare services have contributed to the improvement of the general health of the people; availability of better maternal and child care services reduce tremendously the rate of infant mortality; improved sanitation, water supply and medical facilities have considerably reduced the incidence of epidemics and thereby increased the life expectancy of people; technological developments are enabling people to improve his natural environment.

Activities

1. The above syllabus is best taught through group discussions, using audio-visual aids.
2. Arrange interviews with parents in large families for getting information about their motives or reasons.
3. Arrange to conduct a survey in a selected section of the community regarding their motives, views, opinions and living conditions that favour the growth of the population.
4. Arrange for a lecture by a lawyer or local officer on laws and policies regarding the growth of population. Use tapes of pertinent speeches.
5. Engage the pupils in an exercise of calculating annual birth-rates and death-rates of the community for the last ten years, collaborate on charts.
6. Arrange for a survey of the opinions of a selected neighbourhood about the factors causing the falling death-rate.

Other pro-natality factors such as the following may be discussed: families in various societies have sex preference or a sense of sex equilibrium based on the value of boys and girls in the marriage market. In an attempt to have this preference, they often produce a large number of unwanted children; as the family name is passed on through the male child, families want to have male child/children for the continuation of their family names; contentment with existing low standards of living (subsistence level) is a cause of large-size families; most of the women have the psychological urge of marriage, motherhood and children; chances of survival of some children are greater from a large number of children in a family; some parents produce large number of children to prove their greater virility or fertility; low legal age is responsible for a longer period of marital life and consequently larger number of children; legal systems give preference or greater recognition to the male child for purposes of inheritance; government policies regarding child allowance, tax exemption, maternity facilities, rations, etc. induce parents to produce a large number of children.

Anti-natality factors such as the following may be discussed: better diet, clothing and housing have improve the health of the people; expansion in educational programmes, recreational facilities and social welfare services have contributed to the improvement of general health of the people; availability of better maternal and child care has helped to reduce tremendously the rate of infant mortality; improved sanitation, water supply and medical facilities have considerably reduced the incidence of epidemics and increased enormously the life expectancy of people; technological developments are enabling man to control his natural environment.

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Sub-unit 4. Consequences of rapid population-growth for economic development

Introduction

: The main purpose of this unit is to develop an awareness and understanding among students that there is a close relationship between a rapid population-growth and the economic well-being of a country. A rapid population-growth may have some adverse effects upon the economic resources of the country.

Objectives

: Developing understanding that economic development is primarily concerned with increasing the level of output per head of population; generally speaking economic development depends on the main factors of production, namely, land, labour, and capital in a country; a rapid population-growth tends to bring about pressure on the utilization of land; modern mechanized agriculture increase yield of land, but not to an unlimited extent; more people are dependent on the consumption of food and other natural resources which are limited in most developing countries; a rapid population-growth could mean that there may not be enough jobs for the young-age population; rapid growth in population reduces the possibilities of capital accumulation for investment in economic development; more industries need to be developed to produce goods and services for home consumption, for exports and to provide

Developing the ability to collect data on, for example: national income, per-capita income, population and its rate of growth, land utilization, natural resources, employment, savings, capital, formation and industries; interpret and compare general causes of economic development or backwardness; prepare charts and graphs; interview people; make surveys.

Developing aspirations for better living conditions for the family; for the economic development of the country; desire for a small family size.

Syllabus

1. Information on the country's land utilization, e.g., land holdings, cultivated and available land, fertility of land and increase pressure on the use of land.
2. Availability of natural resources in the country and in the world; the effect of rapid population-growth on the consumption of natural resources.
3. A rapid population-growth may bring about many labour problems such as: increase in unemployment/underemployment; increase in unskilled labour, increase in child labour, increase in cheap labour/lower wages, lower efficiency/quality of work, increase in frustration for jobs possibly resulting in frustration.
4. More expenditure on consumption due to rapid population-growth leads to less savings at the family and national levels.

Unit 4. Consequences of rapid population-growth for economic development

The main purpose of this unit is to develop an awareness and understanding among pupils that there is a close relationship between a rapid population-growth and the economic well-being of a country. A rapid population-growth may have some adverse effects upon the economic resources of the country.

Developing understanding that economic development is primarily concerned with the growth of output per head of population; generally speaking economic development depends on three main factors of production, namely, land, labour, and capital in a country; a rapid population-growth tends to bring about pressure on the utilization of land; modern methods of agriculture increase yield of land, but not to an unlimited extent; more people means more consumption of food and other natural resources which are limited in most developing countries; a rapid population-growth could mean that there may not be enough jobs for the working-age population; rapid growth in population reduces the possibilities of capital development for investment in economic development; more industries need to be developed in order to produce goods and services for home consumption, for exports and to provide employment.

Developing the ability to collect data on, for example: national income, per-capita income, population and its rate of growth, land utilization, natural resources, employment and unemployment, savings, capital, formation and industries; interpret and compare given data; analyse general causes of economic development or backwardness; prepare charts or graphs; interview people; make surveys.

Developing aspirations for better living conditions for the family; for the economic development of the country; desire for a small family size.

Information on the country's land utilization, e.g., land holdings, cultivated and cultivable land, fertility of land and increase pressure on the use of land.

Availability of natural resources in the country and in the world; the effects of rapid population-growth on the consumption of natural resources.

A rapid population-growth may bring about many labour problems such as: increase in unemployment/underemployment; increase in unskilled labour, increase in child labour, increase in cheap labour/lower wages, lower efficiency/quality of work, increased competition for jobs possibly resulting in frustration.

More expenditure on consumption due to rapid population-growth leads to less savings at the family and national levels.

5. Capital formation is essential to economic development; it depends largely on individual savings, corporation savings and government savings. More children reduce the growth-rate of savings, resulting in slow capital formation.
6. Higher population growth-rate may cause a greater consumption of government funds in providing social services, which means less capital for productive investment.
7. Industrial development is part of the process of economic development and requires capital. If capital is scarce in the country, industrial development is slow unless foreign capital is imported.
8. Slow industrial development may lead to conditions such as: not enough investment in population, fewer facilities for teaching modern technology, less demand for modern technologies, little urge for technological research and invention, and concentration of industrial ownership in a few hands.

Activities

1. This unit requires the use of data from various sources concerning population and economic activities, such as statistics on population (age, composition, birth rate), national income, per capita income, employment opportunities, agricultural situation and the agriculture and industries programmes.
2. Pupils can discuss and give reports on: individual and family income, expenditure, government income and expenditures, problems of land utilization in communities, problems of food supply and nutrition, savings and investment.
3. Pupils may make a survey of income, expenditure and employment of families in their locality.
4. Pupils may prepare charts or graphs showing the relationship between population and national income.
5. Resource persons such as public health officers, economists, may be invited to give talks on their specialized fields in relation to rapid population-growth.
6. Field trips can be arranged to slum areas or overcrowded schools.

Assignment/
Evaluation

1. What are the main factors promoting and hindering economic development in other developing countries?
2. Why is capital scarce in the country and in other developing countries?
3. What has been the trend in the pressure on land utilization in the country and in other developing countries?

5. Capital formation is essential to economic development, it depends largely upon individual savings, corporation savings and government savings. More children tends to lower the growth-rate of savings, resulting in slow capital formation.
 6. Higher population growth-rate may cause a greater consumption of government capital for providing social services, which means less capital for productive investment.
 7. Industrial development is part of the process of economic development; it depends on capital. If capital is scarce in the country, industrial development will be very slow unless foreign capital is imported.
 8. Slow industrial development may lead to conditions such as: not enough jobs for growing population, fewer facilities for teaching modern technology, less demand for certain modern technologies, little urge for technological research and inventions, concentration of industrial ownership in a few hands.
- : 1. This unit requires the use of data from various sources concerning population-growth and economic activities, such as statistics on population (age, composition, growth-rate), national income, per capita income, employment opportunities, unemployment situation and the agriculture and industries programmes.
2. Pupils can discuss and give reports on: individual and family income, sources of government income and expenditures, problems of land utilization in community/country, problems of food supply and nutrition, savings and investment.
 3. Pupils may make a survey of income, expenditure and employment of families in the locality.
 4. Pupils may prepare charts or graphs showing the relationship between population-growth and national income.
 5. Resource persons such as public health officers, economists, may be invited to give talks on their specialized fields in relation to rapid population-growth.
 6. Field trips can be arranged to slum areas or overcrowded schools.
- : 1. What are the main factors promoting and hindering economic development in the country and in other developing countries?
2. Why is capital scarce in the country and in other developing countries?
 3. What has been the trend in the pressure on land utilization in the country, and in other developing countries?

Sub-unit 5: Consequences of rapid population-growth for social development

Introduction

: Asian nations are not only developing their economies; they are also striving for the development of social welfare facilities and services. So far, whatever progress is set by increases in population. The common man seldom thinks of why the economic development are failing and what would be the consequences of further increase in population. Ignorance by the present younger generation regarding the consequences of rapid growth of population may doom the future generations. It is urgent that schools should know the possible adverse effects of rapid growth of population on the welfare of the future generations so that they may make their future demographic decisions with responsibility.

Objectives

: Developing an understanding that an increase in the number of people will require an increase in facilities and welfare services; the more dense the population, the more problems there may be for the health of the population; the more rapidly growing the population, the graver the problems of educating that population could become; an increase in population would further aggravate the problems of transportation; rapid growth of population could lead to further deterioration in the social relationships of the people.

Developing the ability to propagate the cause of rational population policies and participate in group discussions; arrange field trips; interview people; organize and report information.

Developing concern for the welfare of future generations; urge to support rational population policies and assume leadership roles in executing such policies.

Syllabus

: I. Possible effects on public services, such as the following:

1. Asian societies are already short of medical, educational, recreational, transportation and communication facilities.
2. Increase in population will imply greater demand for various kinds of public facilities: the aim of providing adequate public facilities to all people may become a reality.
3. Provision of public facilities for increasing population will involve large amounts of public money.
4. Increase in public funds could entail higher rates of taxes/fees/fares/charges.
5. Raise in taxes/public charges could lead to a decrease in economic power of the people and unrest among them.

Sub-unit 5: Consequences of rapid population-growth for social development

: Asian nations are not only developing their economies; they are also striving for development of social welfare facilities and services. So far, whatever progress is made is offset by increases in population. The common man seldom thinks of why the efforts for social development are failing and what would be the consequences of further increases in population. Ignorance by the present younger generation regarding the consequences of rapid growth of population may doom the future generations. It is urgent that pupils in schools should know the possible adverse effects of rapid growth of population on the welfare of the future generations so that they may make their future demographic decisions with responsibility.

: Developing an understanding that an increase in the number of people will require an increase in facilities and welfare services; the more dense the population, the more hazards there may be for the health of the population; the more rapidly growing the population, the graver the problems of educating that population could become; an increase in population would further aggravate the problems of transportation; rapid growth of population could lead to further deterioration in the social relationships of the people.

Developing the ability to propagate the cause of rational population policies; conduct and participate in group discussions; arrange field trips; interview people; collect, organize and report information.

Developing concern for the welfare of future generations; urge to support rational population policies and assume leadership roles in executing such policies.

: I. Possible effects on public services, such as the following:

1. Asian societies are already short of medical, educational, recreational, civic, transportation and communication facilities.
2. Increase in population will imply greater demand for various kinds of public facilities: the aim of providing adequate public facilities to all people may never become a reality.
3. Provision of public facilities for increasing population will involve increasing amounts of public money.
4. Increase in public funds could entail higher rates of taxes/fees/fares/charges.
5. Raise in taxes/public charges could lead to a decrease in economic power of the people and unrest among them.

II. Possible effects on the health of the people, such as the following:

1. Sanitary conditions are already not satisfactory in some areas.
2. Too many people living in a small area without sufficient sanitary facilities means greater pollution of water.
3. Poorer sanitation may lead to greater possibilities of spread of communicable diseases.
4. Increase in population without a corresponding increase of food production will result in a decrease in the per capita food intake, diminishing the nutrition and vitality of the people.
5. Lower vitality means less immunity to diseases.
6. Inadequate food intake by very young children may cause a greater incidence of mental retardation.
7. Worries about meeting the various needs of too many children may increase the cases of emotional upsets and nervous breakdowns among parents.

III. Possible effects on education, such as the following:

1. Rapid growth of population may aggravate the problem of overcrowding in classrooms.
2. Higher teacher-pupil ratio may lead to a further fall in the quality of education.
3. The larger the number of children in a family, the lower the ability of the family to provide for their education.
4. The attainment of universal literacy may become almost impossible.

IV. Possible effects on transportation and communication, such as the following:

1. Increase in population would increase overcrowding in the common means of transportation.
2. It will become increasingly difficult to dispense with slow but cheaper modes of transportation because less money will be available for investment in newer and more efficient modes of transportation.
3. In most areas there is already too much automobile traffic. More people means more traffic and more hazards on roads.
4. Large families may not save enough to afford modern amenities.

V. Possible effects on social relationships, such as the following:

1. The situation of too many people trying to benefit from limited resources intensify inter-group prejudices and clashes of interests.
2. The increase in population could make the situation more fertile for class strikes and riots and other social tensions.
3. The parents will not be able to give proper attention and care to their children and this situation may lead to increases in juvenile delinquency and adjustment of children.
4. Distribution of limited family resources over a large number of children an adequate share for each may develop jealousy among the siblings.

Activities

1. Arrange talks by health officers, education officers, municipal officers, teachers, officers, labour officers and social workers.
2. Organize trips to medical centres, educational institutions, areas of heavy traffic, railway stations and bus stands.
3. Have the pupils study and compare increases in population in the community over a period with increases in: medical facilities; number of users of these facilities; educational facilities; school enrolments; transport facilities; users of these facilities.
4. Engage the pupils in a comparative study of: facilities enjoyed by large families and small families in the community; facilities enjoyed by families in countries with large families and by families in countries with small families.
5. Arrange group discussions or class debates on some of the controversial statements in the content.

Audio-visual aids

1. Pictures, filmstrips etc. showing crowds of people at bus stands, railway stations, classrooms, on highways, in the street.
2. Charts showing possible effects of rapid population-growth on the provision of social welfare services.

V. Possible effects on social relationships, such as the following:

1. The situation of too many people trying to benefit from limited resources may intensify inter-group prejudices and clashes of interests.
 2. The increase in population could make the situation more fertile for class struggle, strikes and riots and other social tensions.
 3. The parents will not be able to give proper attention and care to their several children and this situation may lead to increases in juvenile delinquency and social maladjustment of children.
 4. Distribution of limited family resources over a large number of children and an inadequate share for each may develop jealousy among the siblings.
1. Arrange talks by health officers, education officers, municipal officers, transportation officers, labour officers and social workers.
 2. Organize trips to medical centres, educational institutions, areas of heavy road traffic, railway stations and bus stands.
 3. Have the pupils study and compare increases in population in the community over a certain period with increases in: medical facilities; number of users of these facilities; educational facilities; school enrolments; transport facilities; users of these facilities.
 4. Engage the pupils in a comparative study of: facilities enjoyed by large families and by small families in the community; facilities enjoyed by families in countries with large families and by families in countries with small families.
 5. Arrange group discussions or class debates on some of the controversial statements given in the content.
 6. Pictures, filmstrips etc. showing crowds of people at bus stands, railway stations, hospitals, classrooms, on highways, in the street.
 7. Charts showing possible effects of rapid population-growth on the provision of various social welfare services.

Sub-unit 6. Measures to check rapid population-growth

Introduction

: The ultimate aim of population education is to cultivate in the mind of pupils the awareness that they should take rational actions regarding the population problem; therefore they should know about specific measures that can be taken. The pupils will understand that a government's policy and programme alone cannot change the attitude toward birth and fertility behaviour, but each individual who realizes the role to play, can contribute to achieving the government's objectives.

Objectives

: Developing an understanding of legal and actual age of marriage of women and fertility behaviour as major factors contributing toward the rapid growth of population; the advantage of late marriage; the measures that an individual can take to influence national demographic decisions; the measures which have been, will be, and could be taken at the national and international levels.

Developing the ability to interpret charts, graphs, maps and census, survey data; calculate various kinds of elementary indices regarding population structure and change; prepare charts, graphs and maps of population structure and change; analyse the inter-relationships and interactions of various factors in population growth and fertility behaviour; make a comparative study of charts, graphs and maps of population growth, censuses, surveys and civil registration; assess the effects of undesirable population growth on the process of population-growth in own country, region and world; appraise the present population situation in own country, region and world.

Developing an appreciation of late marriage as a social norm; the role of shortening the duration of procreation; methods of controlling natural fertility; the need to rationally decide on his/her own fertility behaviour; a sense of responsibility of government agencies executing the government's population policies.

Syllabus

1. *Individual measures*: late marriage (advantages and disadvantages); individual measures to control fertility.
2. *National measures*: family planning programmes; provision of clinical facilities; increase in legal age of marriage; withdrawal of certain government facilities to families beyond a particular size; population education in schools; rewards for promoters of family planning; legal sanction of maximum family size.

Activities

1. Collection of pamphlets, newsletters, magazines, reports and other material on population studies and control at national and international levels.

Sub-unit 6. Measures to check rapid population-growth

: The ultimate aim of population education is to cultivate in the mind of pupils the awareness that they should take rational actions regarding the population problem. They must therefore know about specific measures that can be taken. The pupils will have to know that a government's policy and programme alone cannot change the attitude of people toward birth and fertility behaviour, but each individual who realizes the role and part he has to play, can contribute to achieving the government's objectives.

: Developing an understanding of legal and actual age of marriage of women and men and their fertility behaviour as major factors contributing toward the rapid growth of population; the advantage of late marriage; the measures that an individual can take regarding rational demographic decisions; the measures which have been, will be, and could be taken at the national and international levels.

Developing the ability to interpret charts, graphs, maps and census, survey and registration data; calculate various kinds of elementary indices regarding population distribution and change; prepare charts, graphs and maps of population structure and distribution; analyse the inter-relationships and interactions of various factors in population changes and fertility behaviour; make a comparative study of charts, graphs and maps on population censuses, surveys and civil registration; assess the effects of undesirable elements on the process of population-growth in own country, region and world; appraise critically the present population situation in own country, region and world.

Developing an appreciation of late marriage as a social norm; the role of women and men in shortening the duration of procreation; methods of controlling natural fertility, a willingness to rationally decide on his/her own fertility behaviour; a sense of co-operation with agencies executing the government's population policies.

- : 1. *Individual measures*: late marriage (advantages and disadvantages); individual control of fertility.
- 2. *National measures*: family planning programmes; provision of clinical facilities; rise in legal age of marriage; withdrawal of certain government facilities to a family going beyond a particular size; population education in schools; rewards for family planners/promoters of family planning; legal sanction of maximum family size.
- : 1. Collection of pamphlets, newsletters, magazines, reports and other means of information on population studies and control at national and international levels.

- : 2. Class discussion may be held on: the role of individuals in checking of rapid growth of population; family planning programmes in the country; what the government does to solve the population problem; the contribution of international organizations towards the solution of population problems.
- 3. Pupils may make comparative studies on the methods/approaches of checking population growth in their own country with those used in other countries.
- 4. Charts, diagrams and posters prepared or collected by students or teacher may be put on bulletin board.
- 5. Debates and group discussions should be encouraged and organized by the teacher.
- 6. Pupils may prepare discussion reports and write essays on selected topics.

Reference materials

- : 1. Human geographical map of own country and world.
- 2. Charts, graphs, diagrams, showing: legal age of marriage of various countries in own region and world; actual age of marriage of various countries in own region; governmental expenditure on the execution of population policies.
- 3. Other references such as: government's reports; family planning reports and year books; UN and other international publications.

Assignment/ Evaluation

- : 1. What measures are being taken to solve the population problem in the country?
- 2. What international agencies are helping nations in solving the population problem? What kinds of help are offered?

2. Class discussion may be held on: the role of individuals in checking of rapid growth of population; family planning programmes in the country; what the government could do to solve the population problem; the contribution of international organizations toward the solution of population problems.
3. Pupils may make comparative studies on the methods/approaches of checking population-growth in their own country with those used in other countries.
4. Charts, diagrams and posters prepared or collected by students or teacher may be put on bulletin board.
5. Debates and group discussions should be encouraged and organized by the teachers.
6. Pupils may prepare discussion reports and write essays on selected topics.
7. Human geographical map of own country and world.
8. Charts, graphs, diagrams, showing: legal age of marriage of various countries in own region and world; actual age of marriage of various countries in own region and world; governmental expenditure on the execution of population policies.
9. Other references such as: government's reports; family planning reports and programmes; year books; UN and other international publications.
10. What measures are being taken to solve the population problem in the country?
11. What international agencies are helping nations in solving the population problem?
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