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ABSTRACT

The Saginaw Prekindergarten Program is designed to provide 4-year-olds with an environment that will enable them to develop skills needed for future success in school, and to prepare inner city children for entry into kindergarten. The objectives of the program include specific achievements in 16 cognitive skills, psychomotor skills, and parental participation areas. An annual evaluation was conducted for the 1999-2000 school year. A total of 309 children from 13 schools participated in the program. The Prekindergarten Saginaw Objective Reference Test assessed student achievement on a posttest-only basis. Teachers recorded the amount and type of parent participation throughout the year. Findings indicated that students attained all the cognitive objectives and three of the four psychomotor objectives. In comparison to 1999 data, seven objectives showed minor decreases in the percent of pupils meeting the mastery criteria while five objectives showed increases. All objectives related to parent participation through classroom participation, parent meetings, and completion of home activities with the children were met successfully. It was concluded that the Saginaw Prekindergarten Program was very successful in 1999-2000, having attained 15 of the 16 program objectives. It was recommended that building differences in results be examined and that the teachers and program supervisor jointly explore reasons for relatively poor achievement on one of the psychomotor objectives and develop an instructional management system which will lead to attaining this objective. (Six appendices include the prekindergarten objectives, data collection instructions, and tabulated data by building.) (KB)

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# EVALUATION REPORT

ED 444 725

## PREKINDERGARTEN PROGRAM PRODUCT EVALUATION REPORT

1999/2000

## DEPARTMENT OF EVALUATION SERVICES

- PROVIDING ASSESSMENT, PROGRAM EVALUATION AND RESEARCH SERVICES -

SCHOOL DISTRICT OF THE CITY OF SAGINAW

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**PREKINDERGARTEN PROGRAM**
**PRODUCT EVALUATION REPORT**

**1999/2000**

An Approved Report of the

Department of Evaluation, Testing, and Research


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July, 2000

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## Program Description

Saginaw's Prekindergarten program, which has been in operation for the past 31 years, is funded through Title I of the Elementary and Secondary Education Act of 1965. It is designed to provide four-year-olds with an environment that will enable them to develop skills needed for future success in school. The ultimate purpose of this program is to prepare inner city children, most of whom come from backgrounds that may not have equipped them with these skills, for entry into kindergarten. The program has goals and objectives (see Appendix A) that children, teachers, and parents work toward throughout the year. After a year of prekindergarten, these children should at least be on par with other children as they enter kindergarten.

This year there were approximately 309 children enrolled at 13 elementary buildings with morning and/or afternoon sessions. See Appendix B for counts by site. For the 19th consecutive year, the standardized 27 item Prekindergarten Readiness Screening Device (PRSD) was individually administered. Any pre-schooler receiving a raw score of 17 or below was selected to participate in the program initially and those scoring higher were granted entry on the basis of need (the next most needy score) at the conclusion of the general screening.

The prekindergarten staff included a staff supervisor, 13 certified teachers, 15 teacher aides, and a clerical aide. Maximum children per half-day session was set at 18 children.

## Evaluation Procedures

This report presents the results of the product evaluation of the 1999/2000 Prekindergarten Program.

### Product Evaluation

A product evaluation measures the end results of a particular program. The major product (or outcome) question was: Did the program attain the objectives it set out to accomplish?

To answer this question, the Prekindergarten Saginaw Objective Reference Test (PK-SORT) was used to assess student achievement (see Appendix C for a copy of PK-SORT). The PK-SORT included 31 items dealing with both psychomotor and cognitive program areas. The first 17 items measured the program's nine cognitive objectives, while the remaining 14 dealt with the four fine and gross motor objectives.

The other evaluation instrument is the Parents as Partners Sheet, on which each teacher records the amount and type of parent participation that occurred during the year (objectives 14-16). Due to the mobility of children into and out of the program, a decision rule was developed to define the mastery criteria for both a whole school year and less than a year's attendance as related to objectives 14-15 (see Appendix D for the decision rules).

## Presentation And Analysis Of Product Data

### Prekindergarten Saginaw Objective Referenced Tests (PK-SORT)

The results of the PK-SORT are presented below. PK-SORT results are reported separately for both cognitive and psychomotor subtest areas. The following results are based upon the testing of 303 pupils during April 11-19, 2000.

Summary post-test data for the cognitive subtest are contained in Table 1 below. The cognitive subtest measures nine objectives.



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**Table 1**

**Pupils Attaining Objectives of the Prekindergarten SORT Cognitive Subtest**

| Obj. # | Objective Description | Standard | Pupils Attaining Standard # % | Attainment of Objective |
|---|---|---|---|---|
| 1 | Physical Knowledge | 80% of the pupils will correctly respond to 2 of 3 related items | 285 (94.1) | Yes |
| 2 | Social Knowledge | 80% of the pupils will correctly respond to at least 3 of 4 related items | 282 (93.1) | Yes |
| 3 | Knowledge: Classification | 50% of the pupils will apply 2 criteria for sorting | 270 (89.1) | Yes |
| 4 | Knowledge: Logical-Mathematical -Seriation | 70% of the pupils will answer at least 1 of 2 related items | 265 (87.4) | Yes |
| 5 | Spatio-Temporal Knowledge: Structure of Time | 50% of the pupils will respond correctly to at least 50% of the items | 257 (84.8) | Yes |
| 6 | Expressive Language: Labeling | 85% of the pupils will label at least 4 objects in a picture | 299 (98.7) | Yes |
| 7 | Expressive Language: Mean Length of Utterance | 80% of the pupils will use a sentence of 5 or more words | 285 (94.1) | Yes |
| 8 | Expressive Language: Semantics | 65% f the pupils will use at least 2 of 5 elements of fluency | 254 (83.8) | Yes |
| 9 | Expressive Language: Plot Extension/ Expansion | 50% of the pupils will use at least 1 element of plot extension in their description | 285 (94.1) | Yes |

**Note.** N=303.

Analysis of the data contained in the above table reveals the following:

- Prekindergarten pupils attained nine of the nine (100.0%) cognitive objectives.
- The Expressive Language: Semantics showed the lowest attainment (83.8%).
- Objective 6 (Expressive Language: Labeling) demonstrated the greatest percentage of attainment (98.7%).

Summary data for the psychomotor subtest are presented in Table 2 which follows. The psychomotor subtest measures four objectives.

**Table 2**

**Pupils Attaining Objectives on the Prekindergarten SORT Psychomotor Subtest**

| Obj. # | Objective Description | Standard | Pupils Attaining Standard # | % | Attainment of Objective |
|---|---|---|---|---|---|
| 10 | Fine Motor Coordination | 80% of the pupils will perform at least 3 of 4 activities | 269 | (88.8) | Yes |
| 11 | Spatio-Temporal Knowledge: Structuring of Space (Order) | 65% of the pupils will correctly pattern a topological relationship | 214 | (70.6) | Yes |
| 12 | Representation at the Symbol Level: Specific Shapes | 65% of the pupils will copy 3 of 4 shapes | 179 | (59.1) | No |
| 13 | Gross Motor Coordination | 80% of the pupils will complete at least 3 of 4 movements | 282 | (93.1) | Yes |

**Note.** N=303.

Analysis of the above data reveals the following results:

- Prekindergarten pupils attained three of the four objectives (75.0%).
- Objective 12 (Representation at the Symbol Level: Specific Shapes) showed the lowest attainment (59.1%) and is the only objective not mastered by the group.
- Objective 13 (Gross Motor Coordination) demonstrated the highest attainment (93.1%).

The presentation of cognitive and psychomotor post-test achievement data by building are show in Appendix E.

A comparison of this year's PK-SORT post-test results with the last year is reflected in Table 3 below.

**Table 3**

**Difference Between 1999 and 2000 Pupil Attainments on Prekindergarten SORT**

| Obj. # | Objective Description | 1999 Pupils Attaining Standard # | 1999 Pupils Attaining Standard % | 2000 Pupils Attaining Standard # | 2000 Pupils Attaining Standard % | Difference Between 1999 and 2000 % |
|---|---|---|---|---|---|---|
| 1 | Physical Knowledge (80)[a] | 335 | 94.1 | 285 | 94.1 | 0.0 |
| 2 | Social Knowledge (80) | 340 | 95.5 | 282 | 93.1 | -2.4 |
| 3 | Knowledge: Classification (50) | 320 | 89.8 | 270 | 89.1 | -0.7 |
| 4 | Knowledge: Logical-Mathematical-Seriation (70) | 258 | 72.4 | 265 | 87.4 | 15.0 |
| 5 | Spatio-Temporal Knowledge: Structure of Time (50) | 266 | 74.7 | 257 | 84.8 | 10.1 |
| 6 | Expressive Language: Labeling (50) | 354 | 99.4 | 299 | 98.7 | -0.7 |
| 7 | Expressive Language: Mean Length of Utterance (80) | 340 | 95.5 | 285 | 94.1 | -1.4 |
| 8 | Expressive Language: Semantics (65) | 316 | 88.7 | 254 | 83.8 | -4.9 |
| 9 | Expressive Language: Plot Extension/ Expansion (50) | 333 | 93.5 | 285 | 94.1 | -0.8 |
| 10 | Fine Motor Coordination (80) | 331 | 92.9 | 269 | 88.8 | -4.1 |
| 11 | Spatio-Temporal Knowledge: Structuring of Space (Order) (65) | 242 | 67.9 | 214 | 70.6 | 2.7 |
| 12 | Representation at the Symbol Level: Specific Shapes (65) | 187 | 52.5 | 179 | 59.1 | 6.6 |
| 13 | Gross Motor Coordination (80) | 327 | 91.8 | 282 | 93.1 | 1.3 |

**Note.** N=356 for 1999. N=303 for 2000.

[a]Mastery criteria for each objective stated in percent.

A review of the table above indicates that for 1999 compared to 2000:

- Of the 13 objectives, five showed increases and one remained the same while the remaining seven showed minor decreases in the percent of pupils meeting the mastery criteria. Overall, the program staff and leadership should be complemented about the exceptional performance of their pupils.
- The decrease ranged from -0.7 to -4.9 percentage points while the increases ranged from 1.3 to 15.0 percentage points.
- The largest decrease (-4.9) was shown by Objective 8 (Expressive Language: Semantics).
- Overall, almost all of the objective attainments are well above the stated criteria.

**Parents as Partners**

Parent participation has always been an important part of the Prekindergarten Program. This component is designed to provide parents with the skills they need to become directly involved in their children's education. Parents and other members of the family frequently are quite eager to provide these learning experiences for their child. The parenting component can provide them with specific information on how their frustration can contribute to their child's development.

The parenting component had three main objectives:

At least 60% of the prekindergarten families will participate in the classroom or on field trips four times per year, (Objective 14).

At least 60% of the prekindergarten families will participate in parent meetings four times per year, (Objective 15).

At least 80% of the prekindergarten families will complete with the child nine home activities and return them to school, (Objective 16).

The evaluation of this year's parenting component consisted of a year-end analysis of the data collected and recorded during the year.

Table 4 below presents a detailed view of how the program fared on each of the three objectives.

**Table 4**

**Attainment of Parents as Partners Objectives**

| Objective Number | Families Meeting Standards # | % | Objective Attained |
|---|---|---|---|
| 14 (60%)[a] | 270 | 83.6 | Yes |
| 15 (60%) | 289 | 89.5 | Yes |
| 16 (80%) | 308 | 95.4 | Yes |

**Note.** N=323 number of enrolled students.

[a]Mastery criteria for each objective stated in percent.

As an analysis of the above data indicates, the parenting component was a success. All three objectives met the attainment standard. Parenting data by building can be found in Appendix F.

## Summary and Conclusions

The 1999/2000 Title I Prekindergarten Program served approximately 309 children at 13 elementary schools. A screening test was administered to each registrant at the beginning of the year to select the children who most needed this experience.

The Prekindergarten Saginaw Objective Reference Test (PK-SORT) was used to measure product outcomes on thirteen of the sixteen program objectives. The results show that the program attained nine of the nine (100.0%) objectives in the cognitive skills area, and three of the four (75.0%) objectives in the psychomotor skills area. Overall, the program was able to attain twelve (92.3%) of the thirteen PK-SORT objectives.

Objectives 14, 15, and 16 were also part of the product evaluation of this program. These objectives deal specifically with the Parents as Partners program component. Results show that the program attained all three of these objectives.

Thus, the Saginaw Prekindergarten Program was very successful in attaining 15 (93.8%) of the 16 objectives for the program.

Review of the product evaluation data indicates certain areas where refinement or adjustments can be made in aiming toward further program improvement; they are noted in the next section.

## Recommendations

The recommendations that follow are based on this year's product evaluation and are intended to help bring about Title I program improvements in the following school year. These recommendations take nothing away from a program that continues to show very impressive results for 31 consecutive years, this year included.

The recommended ideas and techniques offered below stem from a perceived problem and are just one of many ways to improve the performance of the program. As solutions are sought for optimum program operations, a dialogue/discussion should be undertaken to determine the best and most workable way to solve the perceived problem. The staff and evaluator should be brought into these discussions so that all involved feel part of the proposed solutions.

1. The teachers and program supervisor should jointly explore the probable circumstances for relatively poor achievement on objective 12 and develop an instructional management system which will lead to attaining this objective, (#12 dealt with Representation at the Symbol Level: Specific Shapes).

2. As with any educational program, the program supervisor and teaching staff should analyze the building results presented by objective, in order to formulate a plan to increase program impact in lower achieving sites.

   This program and staff consistently receives a hard core population of at-risk youngsters and provides an excellent educational experience through their continuous review process.

**APPENDICES**



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## APPENDIX A

## 1999/2000 TITLE I PREKINDERGARTEN OBJECTIVES

1. Physical Knowledge

   80% of the pupils will demonstrate properties of and display appropriate behavior for exploring properties of objects by correctly responding to 2 of 3 items.

2. Social Knowledge

   80% of the pupils will demonstrate knowledge of social roles by correctly responding to at least three of four items.

3. Knowledge: Classification

   50% of the pupils will successfully apply two criteria for sorting: color and/or form.

4. Knowledge: Logical-Mathematical-Seriation

   70% of the pupils will compare and arrange objects according to a given dimension of coordinating transitive relationships of at least one of two items of this objective.

5. Spatio-Temporal Knowledge: Structuring of Time

   50% of the pupils will respond correctly to at least 50% of the items related to temporal ordering of events.

6. Expressive Language: Labeling

   85% of the pupils will label at least four objects in the birthday party picture.

7. Expressive Language: Mean Length of Utterance

   80% of the pupils will use sentences of at least five words to describe the birthday party picture.

8. Expressive Language: Semantics

   65% of the pupils will use at least two of five elements of fluency in their description of the birthday party picture.

9. Expressive Language: Plot Extension/Expansion

   50% of the pupils will use at least one element of plot extension in their description of the birthday party picture.

## APPENDIX A

## 1999/2000 TITLE I PREKINDERGARTEN OBJECTIVES (Continued)

10. Fine Motor Coordination

    80% of the pupils will successfully perform at least three of four activities involving hand/eye coordination.

11. Spatio-Temporal Knowledge: Structuring of Space (Order)

    65% of the pupils will correctly respond to topological relationships of order or pattern.

12. Representation at the Symbol Level: Specific Shapes

    65% of the pupils will copy successfully three of four shapes.

13. Gross Motor Coordination

    80% of the pupils will successfully complete at least three of four large movements of the body.

14. Parent Participation

    60% of the adult members of the prekindergarten family will participate in school activities at least four times per year.

15. Parent Education Program: Friday Meetings

    60% of the adult members of the prekindergarten family will participate in at least four Friday meetings.

16. Parent Education Program: Home Work Activities

    80% of the adult members of the prekindergarten family will help the child complete at least nine prekindergarten home activities and return them to school.

## APPENDIX B

**Prekindergarten Participants and Classroom Sessions by Building as of March, 2000**

| Elementary Building | Count of Full-time Equivalent Classrooms | Number of Participants |
|---|---|---|
| E. Baillie | 0.5 | 8 |
| Coulter | 0.5 | 19 |
| Emerson | 1.0 | 31 |
| Nelle Haley | 1.0 | 34 |
| Heavenrich | 1.0 | 30 |
| Houghton | 1.0 | 26 |
| Jones | 0.5 | 10 |
| Longfellow | 0.5 | 15 |
| Longstreet | 0.5 | 18 |
| Jessie Loomis | 1.0 | 25 |
| Morley | 0.5 | 10 |
| Jessie Rouse | 1.0 | 33 |
| Webber Elementary | 2.0 | 50 |
| TOTAL | 11.0 | 309 |

# *Prekindergarten*

# SAGINAW OBJECTIVE REFERENCED TEST (PK-Sort)

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Superintendent, Foster B. Gibbs, Ph.D.

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APPENDIX C

## DIRECTIONS FOR ADMINISTERING

## PREKINDERGARTEN SAGINAW OBJECTIVE REFERENCED TEST (PK-SORT)

This test is to be administered on a one-to-one basis. It is important that each testing situation be essentially the same for all pupils. Very careful attention should be given to the detailed instructions that are provided in these directions, as well as the instructions that are incorporated into the test itself.

All teacher directions that are included in the test will be in parentheses ( ) and are not to be read to the pupil. The teacher should be familiar with all questions as well as the materials that are to be used in administering the test. The test kit should be checked for inclusion of a complete set of the manipulative materials and flash cards. (See Appendix A for an inventory of these materials.)

In administering the test, the teacher is to score the pupil response to each item as it is given. Each item is scored on a right or wrong basis. The content of each pupil response is to be accepted by the teacher at face value. The teacher should be careful not to provide the pupil with any verbal or non-verbal signals that might influence the pupil's thinking or eventual answer.

It is appropriate for the teacher to provide help that ensures that the pupil understands the task to be performed. In order to facilitate this understanding, each set of instructions should be given and then be repeated. Some pupils benefit from a pause or a "wait time" before they are required to give a response. It is permissable to have a pupil start over if it appears that he/she has forgotten the task, or is confused as to what to do. The pupil should be given up to 30 seconds to respond to any given item. Every



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attempt should be made to administer all items of the test to all pupils. The teacher should take as much time as reasonably necessary to complete the test. If appropriate, the test can be given over a number of days and in a number of settings.

Since the teacher is to judge the correctness or incorrectness of each pupil response, the directions for each test item contains a section on correct or acceptable responses. A clear understanding of the acceptable responses provided in the test instructions will ensure that the teacher can quickly and consistently score each item. Responses are to be scored and coded on the answer sheet as the pupil answers each question. The following symbols are to be used for scoring:

A for correct responses and

B for incorrect or no responses

A machine scoreable answer sheet will be used to record the pupil's responses. The teacher should carefully follow the procedures that are outlined in the "Directions for Completing the Prekindergarten SORT Answer Sheets". These directions will be included in the packet containing the machine scoreable answer sheets.

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APPENDIX C

## PREKINDERGARTEN SORT TEST ITEMS

### PART I: COGNITIVE DEVELOPMENT SUBTEST

(Remember, all statements in parentheses ( ) are intended for your use and are not to be read to the child. In recording answers on your answer sheet, you should code A = correct response and B = incorrect or no response.)

1. SAY, "Let's play a game where you have to tell me about things you cannot see."

   (Hand the pupil feely sock Number 1. It contains a metal zipper.)

   SAY, "Put your hand in the sock. Keep your hand in the sock. Take the thing that is in the sock and feel it. Tell me about it."

   (Pause. Listen for one of these acceptable responses and mark your scoring sheet accordingly.)

   Acceptable Responses

   -- Name of the object
   -- Shape of the object
   -- Use of the object
   -- Name of the material of the object
   -- Texture of the object

   SAY, "Let's take a look at it. Now, let's do another one."

   (Put away sock Number 1 making sure that the zipper is put back, take out sock Number 2.)

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2. (Hand the pupil feely sock Number 2. It contains a toothbrush.)

SAY, "Put your hand in the sock. Keep your hand in the sock. Take the thing that is in the sock and feel it. Tell me about it."

(Pause. Listen for one of these acceptable responses and mark your scoring sheet accordingly.)

Acceptable Responses

— Name of object
-- Shape of the object
— Use of the object
-- Name of the material of the object
— Texture of the object

SAY, "Let's take a look at it. Now, let's do another one."

(Put away Number 2 making sure that the toothbrush is put back, take out sock Number 3.)

- - - -

4. SAY, "Now let's take a look at some pictures and talk about them."

(Show the child the picture marked with the Number 4 on the back. As you are holding it follow these directions.)

SAY, "Tell me who this worker is. What does s/he do?"

(Pause for response, listening for one of the acceptable responses listed below.)

Acceptable Responses

-- Name of the role or title of the worker or
-- A description of what s/he does or how the worker helps us.

(Mark your scoring sheet accordingly.)

5-7. (Put away picture Number 4 and continue following the same directions for pictures 5, 6, and 7. Remember to mark on your scoring sheet after each question.)

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8. SAY, "In just a minute we will play a game with some candies which should be lots of fun."

(Open the envelope marked item Number 8 and randomly place candies that it contains in front of the pupil. As you describe what the pupil is to do, gesture with your hands to represent two piles.)

SAY, "Some candies are yellow, some are green, some are round, and some are long. Put the candies that are alike into two piles. All the candies in each pile should be alike."

(Pause for the child to group the candies. Make sure that one of the groups is correct according to the acceptable responses listed below.)

Acceptable Responses

-- Grouping according to color
-- Grouping according to form

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(Mark your scoring sheet accordingly.)

9. SAY, "In just a minute we will play a game with some circles and triangles which should be lots of fun."

(Open the envelope marked item Number 9 and randomly place the shapes in front of the pupil. As you describe what the pupil is to do, gesture with your hands to represent two piles.)

SAY, "Put the shapes that are the same into two piles. All the shapes in each pile should be alike."

(Pause for the child to group the shapes. Make sure that the groups are correct according to the acceptable response listed below.)

Acceptable Response

— Grouping according to form

(Mark your scoring sheet accordingly.)

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

10. SAY, "Now let's play with some toy bears. They are a family."

(Remove toy bears from envelope marked item Number 10 and allow child to play with and talk about the bear family.)

SAY, "Now, can you put this family from the biggest to the smallest?"

(Pause for the child to arrange the bears from biggest to smallest or the reverse order. Make sure that the arrangement is correct according to the acceptable responses listed below.)

Acceptable Responses

-- All four bears from biggest to smallest or
— All four bears from smallest to biggest

(Mark your scoring sheet accordingly.)



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11. SAY, "Now let's take a look at some pictures and put them in order."

(Open the envelope marked Item 11 and randomly place the four pictures in front of the child.)

SAY, "Here are four girls. Some of the girls are tall, some are short. Put the girls in a row from tallest to shortest."

(Provide a ruler as base. Pause for the child to arrange the girls. Make sure that the arrangement is correct according to the acceptable responses listed below.)

Acceptable Responses

-- All four pictures from tallest to shortest or
-- All four pictures from shortest to tallest

(Mark your scoring sheet accordingly.)

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

SAMPLE EXERCISE

SAY, "We are going to look at some pictures. We're going to talk about what happens first, next, and last."

(Open envelope marked "Sample, 12 and 13". Take out pictures for sample item. Lay pictures on table in order of #1, #2, #3, left to right, facing child.)

SAY, "Let's do this together. Listen to the story."

Mother mixed up a cake.
She put it into the oven to bake.
Then the cake is ready to eat.

SAY, "Show me the picture that happened first."

(Pause for answer and correct if he/she has not understood directions.)

SAY, "Show me the picture that happened next."

(Pause for answer and correct child if he/she has not understood.)

SAY, "Show me the picture that happened last."

(If child gives incorrect sequence, teacher tells the story and presents pictures in correct sequence.)



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12. SAY, "Let's do another story."

(Put Item 12 pictures out in order of #1, #2, #3, left to right, facing child.)

SAY, "Listen to the story."

Daddy wrote a letter.
He walked to the mailbox.
He mailed the letter to his friend.

SAY, "Show me the picture that happened first."
(Pause for correct picture.)

SAY, "What happened next?"
(Pause for correct picture.)

SAY, "What happened last?"
(Pause for correct picture.)

Child must point to or give you pictures in correct order.

(Mark your scoring sheet accordingly and put pictures away.)

13. SAY, "Let's do another story."

(Put Item 13 pictures out in order #1, #2, #3, left to right, facing child.)

SAY, "Listen to the story."

The boy fell in the mud.
He took a bath.
Now he is all clean!

SAY, "Show me the picture that happened first."
(Pause for correct picture.)

SAY, "What happened next?"
(Pause for correct picture.)

SAY, "What happened last?"
(Pause for correct picture.)

Child must point to or give you pictures in correct order.

(Mark your scoring sheet accordingly and put pictures away.)



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14. SAY, "I have a picture here out of a story book. It's part of the story, but the words are missing. Would you look at my picture and help me with the story?"

(Teacher hands child the picture from folder marked Number 14.)

SAY, "Tell me what you see in this picture."

(Pause for the child to answer. Make sure that the answer is listed below as an acceptable response.)

Acceptable Responses

-- Name at least four objects in picture

(Need not identify correctly)

For example:

| | |
|---|---|
| dog | ball |
| squirrel | cars |
| boys | slide |
| girls | picnic table |
| baby | tree |
| cup | blanket |
| grandma | bottle |
| sandwich | clover |
| pie | flowers |
| glass | chair |

Incorrect Responses

— Did not talk
-- Named less than four objects
— Gave irrelevant responses

(Mark your scoring sheet accordingly.)

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(Child continues to use picture marked Number 14.)

15. SAY: "Tell me what you think is happening in the picture?" "Can you tell me more about the picture?"

(Pause for the child to tell the story. Make sure that the answer is listed below as an acceptable response.)

Acceptable Response

-- Uses a sentence of 5 or more words

Incorrect Responses

— Child does not talk
-- Uses sentences of four words or less
— Uses phrases

(Mark your scoring sheet accordingly.)

16. (Score story given for item 15 in terms of acceptable responses given below.)

Acceptable Response

-- Uses at least 3 or 5 of the listed elements of fluency. *

Incorrect Response

-- Uses less than 3 of the listed elements of fluency. *

* Fluency consists of additional responses using:

— Modifiers (uses adjectives or adverbs.)
-- Spatial elements (uses prepositions indicating position.)
-- Number words
-- Emotional or feeling words
— Sequence (uses phrases to describe a series of events.)

(Mark your scoring sheet accordingly.)

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17. (Child continues to hold the picture from the folder marked Number 15.)

SAY, "What do you think will happen next? What will they do when the picnic is over?"

(Pause for the child to answer. Make sure that the answer is listed below as an acceptable response.)

Acceptable Response

-- Child uses 1 or more of the elements listed below as a plot extension. * Any of the extensions below should be acceptable.

* Plot extension consists of:

-- Inferences
-- Predictions
-- Cause and effect
-- Conclusions

Incorrect Response

-- Child does not use plot extension. *

* Plot extension consists of:

-- Inferences
-- Predictions
-- Cause and effect
-- Conclusions

(Mark your scoring sheet accordingly and put the picture away.)

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## PART II: PSYCHOMOTOR ABILITIES SUBTEST

51. (From envelope marked Number 51, ask pupil to fold a 5" x 5" sheet of paper in half. Teacher demonstrates with a sample.)

SAY, "Fold the paper in half."

Acceptable Response

-- Using ruler, folds should show an accuracy + 3/8" in any direction.

(Mark scoring sheet accordingly.)

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

52. (Using the same folded sheet, ask pupil to open the sheet and cut the paper on the fold.)

SAY, "Now open the sheet and cut the paper on the fold line."

(Teacher demonstrates with his/her sample.)

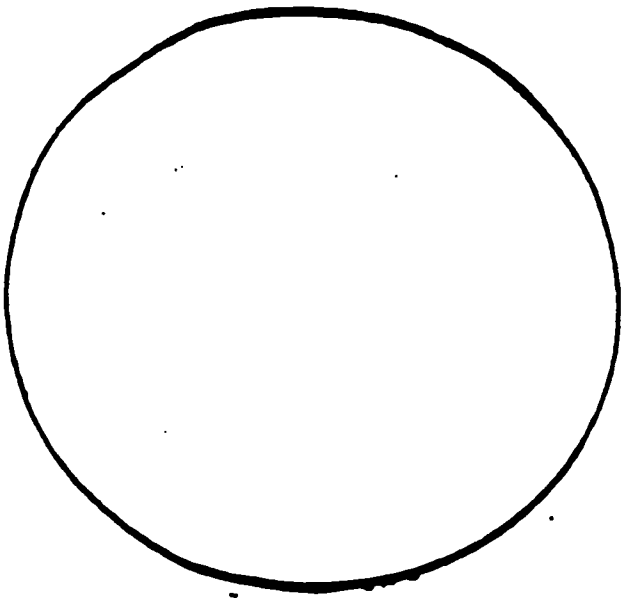
Acceptable Response

-- Using ruler, cuts should be + 1/2" from the fold.

(Mark scoring sheet accordingly.)

53. (Using a crayon from envelope Number 53, ask pupil to color inside the outline of the circle.)

SAY, - "Color inside this circle. Color all of the circle."



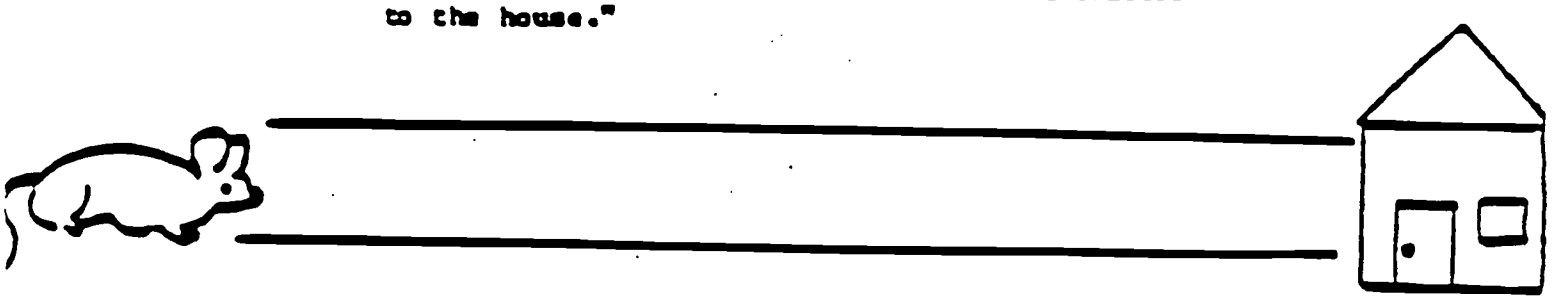
Acceptable Response

-- Using ruler, coloring marks should not exceed 1/2" at any point and approximately 2/3 rds of circle should be colored.

(Mark scoring sheet accordingly.)

54. (Using a crayon from envelope Number 54, ask pupil to draw a line between the two lines.)

SAY, "Draw a line between the two lines from the mouse to the house."



Acceptable Response

-- Crayon line must be within parallel lines and connect the mouse to the house or come within at least 1/2" of touching both the mouse and the house.

(Mark scoring sheet accordingly.)



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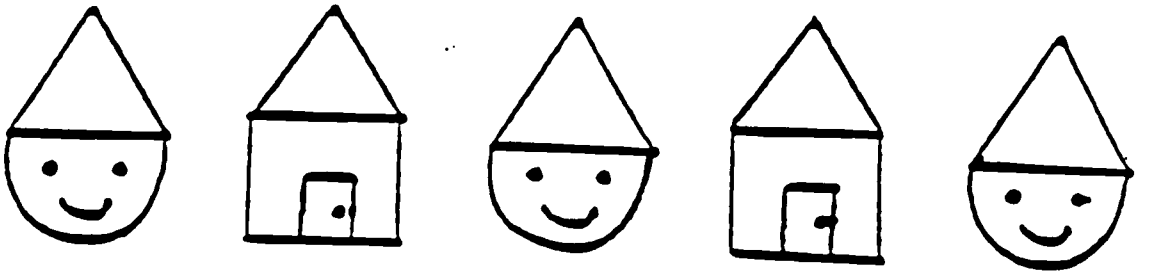
55. (Using cut-out forms from envelope Number 55, place them on the table facing the child in the order shown below. Then take a similar set from envelope Number 55 and ask the child to make the same pattern.)

SAY, "You make your row look just like mine."



Acceptable Response

-- Linear order must be the same as the example.

(Mark scoring sheet accordingly.)

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

56. (Child must be seated across the teacher. Teacher places his/her 5 toy cars from envelope Number 56 on the oaktag circle. The teacher puts down the parking strip, one in front of the child and another at least 10 inches away from that one and parallel to it.)

SAY, "We are going to build parking lots. First, you watch how I park my cars and trucks."

(From the circle the teacher takes 5 cars and places them on teacher parking strip #2 in the same predetermined order for all children as printed on parking strip. Teacher then places the child's 5 toy cars on the oaktag circle and asks the child to park his/her cars on child's parking strip #1 to look just like the teacher's.)

SAY, "Park your cars just like mine."

Acceptable Response

-- Linear order of cars must be the same as the teacher's order according to color.

(Mark scoring sheet accordingly.)



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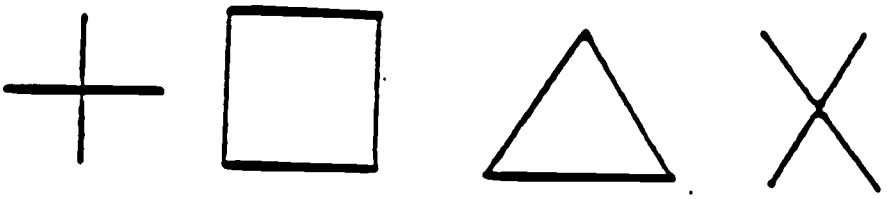
57-60. (Using cards from envelope Number 57-60, show one card at a time in the following order. Hand an extra sheet of paper to the child to draw the figures.)



SAY, "Draw a shape like this one."

Acceptable Response

-- See Appendix B for acceptable drawings as shown in Administration and Scoring Manual for the Developmental Test of Visual Motor Integration.

---

61. (Given the directive [opportunity] to hop on one foot, the child will be able to take five consecutive hops on either foot.)

Acceptable Response

-- Successful performance of the above activity.

(Mark scoring sheet accordingly.)

---

62. (Given a mark on the floor, the child will be able to jump over it by simultaneously lifting both feet from the floor and propelling his/her body forward and landing with feet together.)

Acceptable Response

-- Successful performance of the above activity.

(Mark scoring sheet accordingly.)



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63. (Given a directive [opportunity] to skip, as a participant in any group activity which involves skipping, the learner will be able to skip using alternate feet, for a distance of ten or more feet.)

Acceptable Response

-- Successful performance of the above activity.

(Mark scoring sheet accordingly.)

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

64. (Given a ten-foot length of a 2" by 4" piece of lumber, the child will be able to walk a distance of at least five feet on the 4" side of the lumber.)

Acceptable Response

-- Successful performance of the above activity.

(Mark your scoring sheet accordingly and put the materials away. Thank the child for working with you.)

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# APPENDIX C

## ATTACHMENTS

APPENDIX C

ATTACHMENT A

PK-SORT INVENTORY OF MATERIALS

PART I: COGNITIVE DEVELOPMENT SUBTEST

Item 1. - 1 feely sock with a zipper in it.

Item 2. - 1 feely sock with a toothbrush in it.

Item 3. - 1 feely sock with a plastic egg in it.

Items 4-7. - picture of a postman, policeman, truck driver, and snack bar attendant.

Item 8. - 4 green and 4 yellow candies (4 round and 4 rectangular)

Item 9. - 5 circles (3-3/4" diameter) and 4 triangles (3-7/8" sides)

Item 10. - 4 bears of varying heights/sizes

Item 11. - 4 girl paper dolls of varying heights/sizes and 1-12" ruler for base (9-1/2", 7-7/8", 6-1/4", and 5-1/4" tall)

Sample - 3 pictures of Mother mixing cake, baking cake, and serving cake.

Item 12. - 3 pictures of Dad writing letter, walking to mailbox, and mailing letter.

Item 13. - 3 pictures of Boy falling in mud, taking bath, and then all clean.

Item 14. - 1 picture of a picnic.

PART II - PSYCHOMOTOR DEVELOPMENT SUBTEST

Items 51-52. - 5-inch square pieces of paper and 1 pair of scissors.

Items 53-54. - paper with a 3-inch circle and a mouse/house illustration on it. (template for 3-inch circle scoring.)

Item 55. - 4 house illustrations and 6 face illustrations.

Item 56. - 2 strips of oaktag (3" x 8-1/2") for parking lots
1 oaktag circle (5-1/8" in diameter) for setting out cars and trucks
5 sets of different colored cars and/or trucks (2 per set).

Items 57-60. - oaktag flash cards (5-1/2" x 5-1/2") of a square figure, a triangle figure, a plus sign, and an "X". multiple sheets of paper set up for students to replicate figures with four quadrants.

Item 62. - 1 strip of tape or mark on the floor is needed.

Item 64. - a 2" x 4" x 10" piece of lumber or a balance board is needed.



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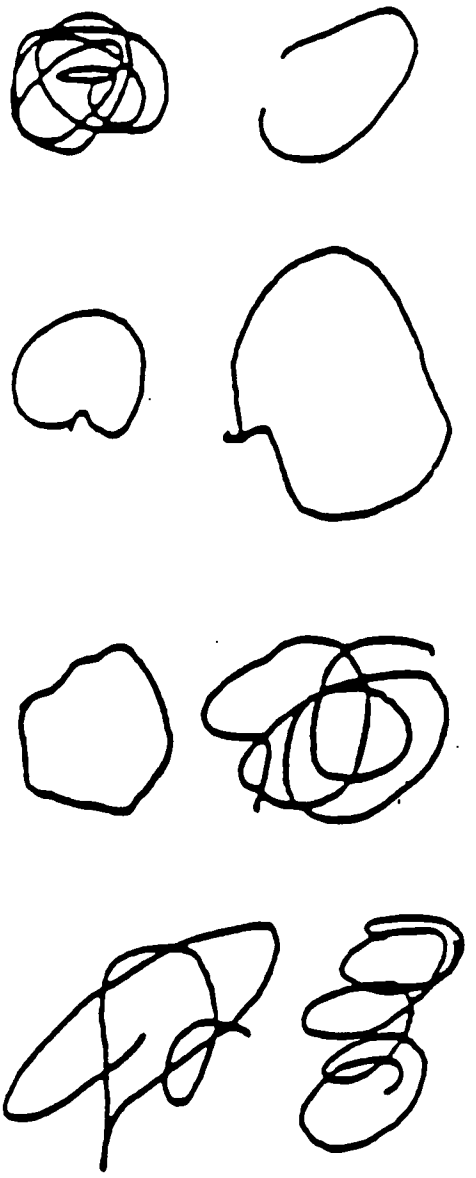
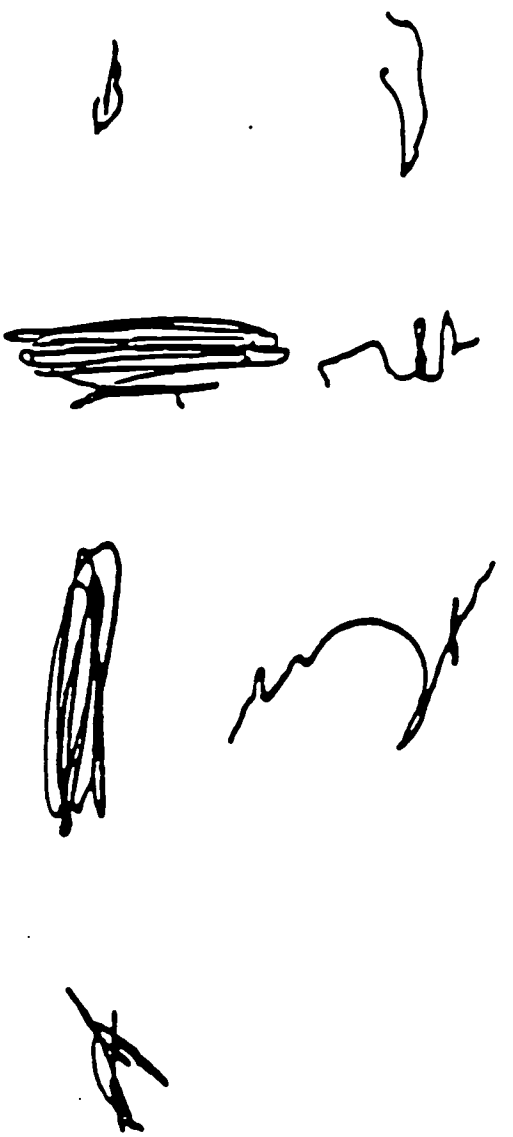
APPENDIX C

ATTACHMENT B

**FORM 3 Circle**
*Scoring Criteria*

Predominantly circular lines

Age Norms
(Imitated)
2.9
(Copied)
3.0

| Passing | Failing |
|---|---|
|  |  |

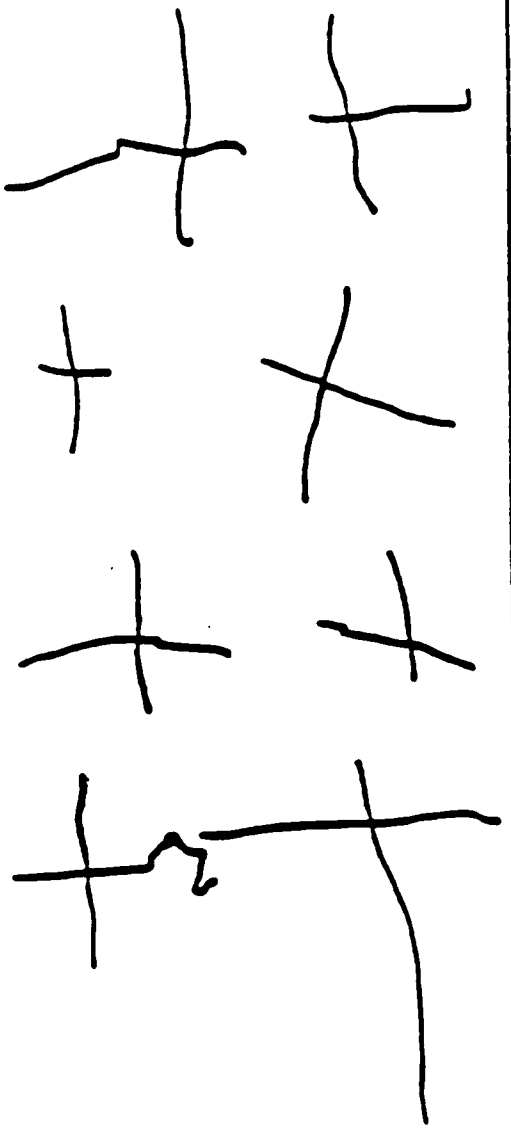
## FORM 4 Vertical-Horizontal Cross

Age Norm 4;1

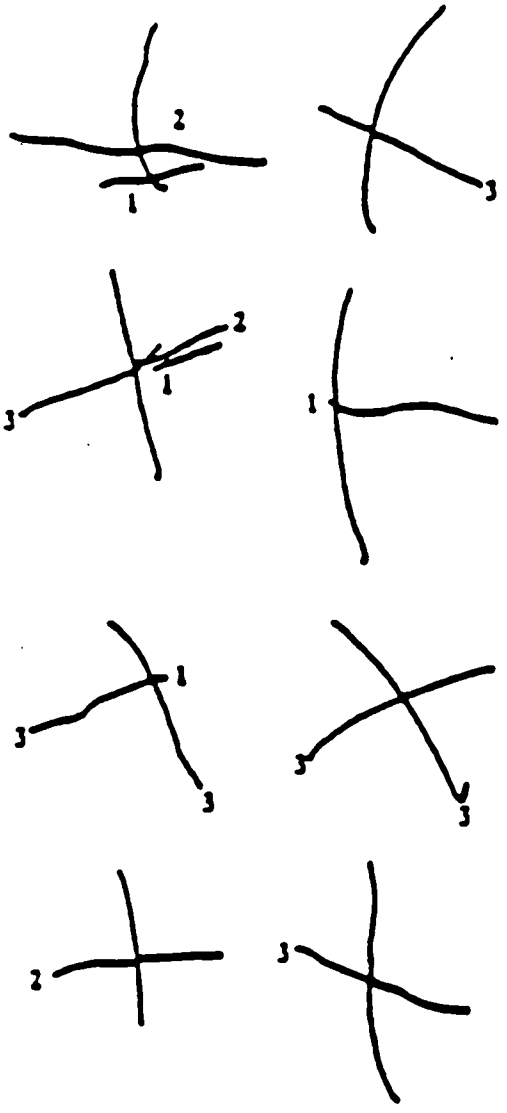
*Scoring Criteria*

| | | |
|---|---|---|
| 1. Two fully intersecting lines | noc | |
| 2. Two continuous lines | noc | |
| 3. At least ½ of each line within 20° of its correct orientation | noc | |

**Passing**



**Failing**



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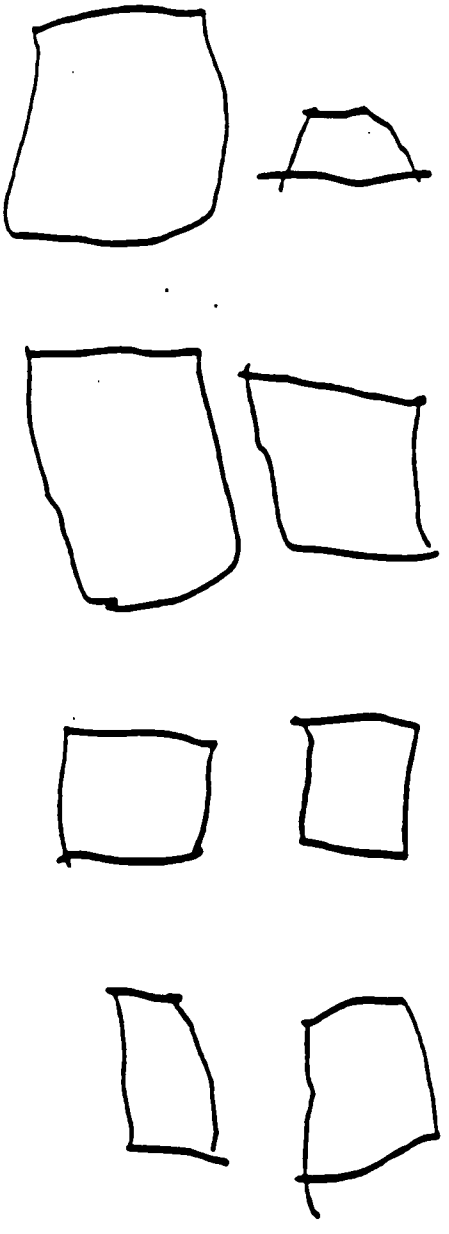
**FORM 6 Square**
*Scoring Criteria*

Age Norms 4.6

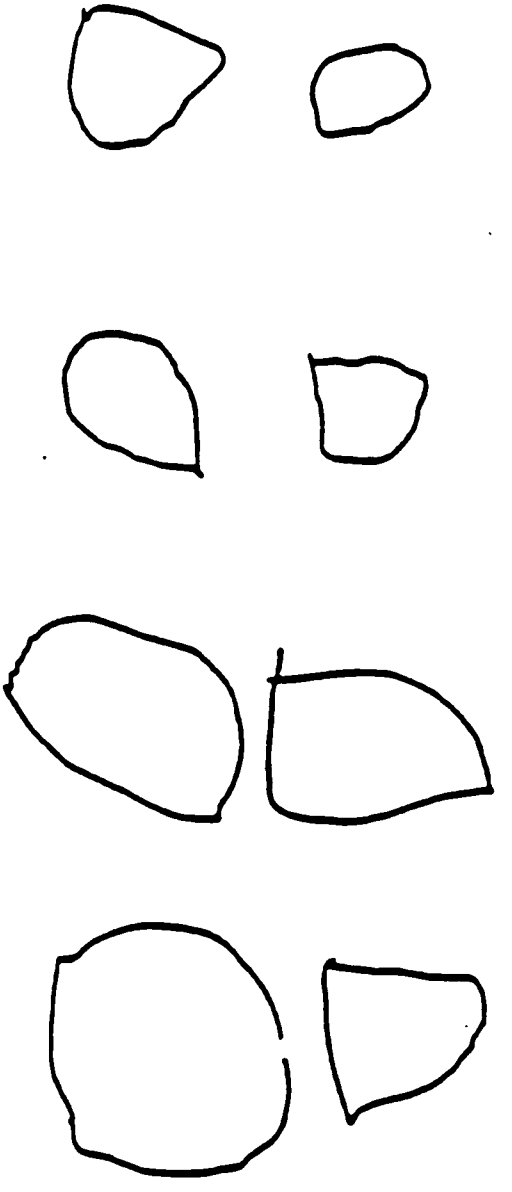
Four clearly defined *sides*
(corners need not be angular)

not

**Passing**



**Failing**



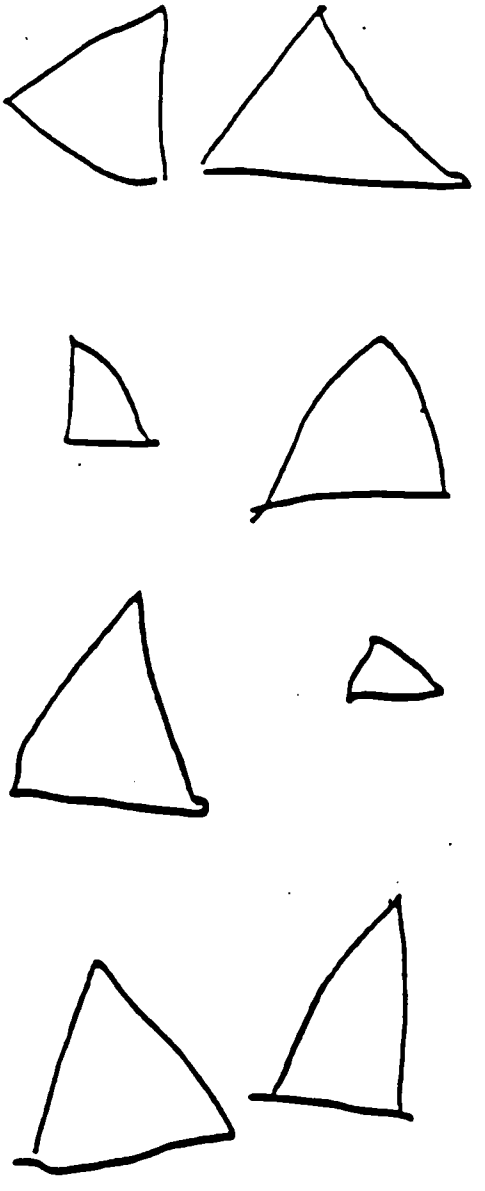
ATTACHMENT B

## FORM 9 Triangle
### Scoring Criteria

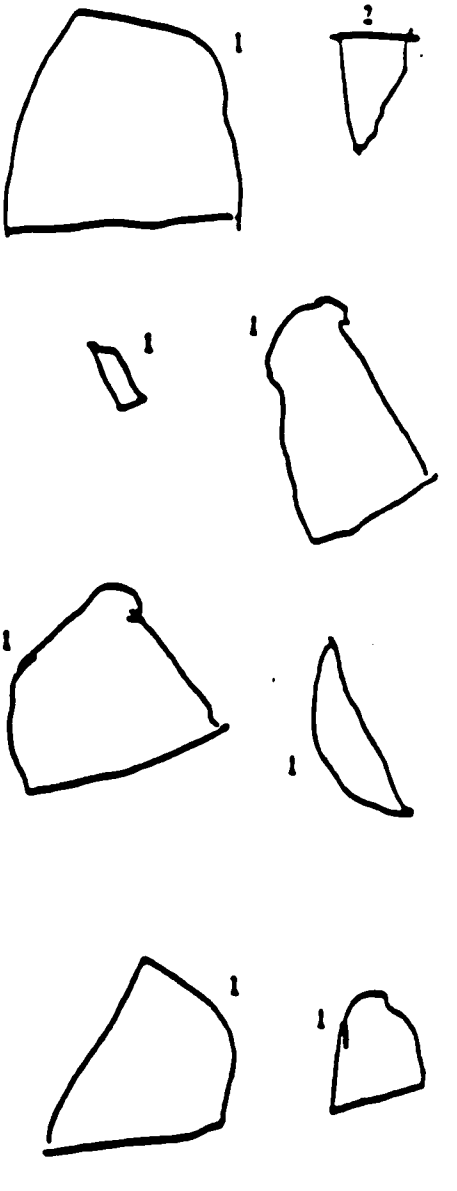
Age Norm 5:3

1. Three clearly defined sides — not
2. One corner higher than others — not

**Passing**



**Failing**



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## APPENDIX D

## DECISION RULES

### Prekindergarten/MSRP Parents As Partners Tally Sheets

- To be counted, students must have attended at least four months; counted at the school at which data is reported ("moved to" is not counted unless data of "receiving" school does not contain "moved" student).

- To be counted as attaining individual standard:

  - Half year:

    -- At least two occurrences "helps in the classroom"
    -- At least two occurrences "meetings"
    -- At least five occurrences "home activities"

  - Whole year ($\geq$ 6 months in program)

    -- At least four occurrences "helps in classroom"
    -- At least four occurrences "meetings"
    -- At least nine occurrences "home activities"



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**Table E-1**

**Percent of Students Attaining Mastery on PK-SORT by Building**

| PK-SORT Objective (Criteria) [a] | BUILDING | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Baillie (N=7) | Coulter (N=18) | Emerson (N=27) | N. Haley (N=31) | Heavenrich (N=31) | Houghton (N=27) | Jones (N=19) | Longfellow (N=15) | Longstreet (N=19) | Loomis (N=24) | Morley (N=7) | Rouse (N=32) | Webber I (N=24) | Webber II (N=22) | PROGRAM WIDE (N=303) |
| 1 (80) | 100.0 | 100.0 | 96.3 | 83.9 | 96.8 | 100.0 | 84.2 | 93.3 | 89.5 | 100.0 | 100.0 | 87.5 | 100.0 | 95.4 | 94.1 |
| 2 (80) | 100.0 | 100.0 | 96.3 | 83.9 | 90.3 | 100.0 | 89.5 | 100.0 | 78.9 | 100.0 | 85.7 | 84.4 | 100.0 | 100.0 | 93.1 |
| 3 (50) | 71.4 | 88.9 | 100.0 | 90.3 | 90.3 | 96.3 | 84.2 | 86.7 | 94.7 | 95.8 | 85.7 | 81.2 | 95.8 | 68.2 | 89.1 |
| 4 (70) | 71.4 | 94.4 | 88.9 | 74.2 | 83.9 | 81.5 | 84.2 | 100.0 | 52.6 | 100.0 | 100.0 | 100.0 | 100.0 | 90.9 | 87.4 |
| 5 (50) | 85.7 | 83.3 | 92.6 | 67.7 | 64.5 | 81.5 | 94.7 | 93.3 | 63.2 | 100.0 | 100.0 | 84.4 | 100.0 | 100.0 | 84.8 |
| 6 (85) | 100.0 | 100.0 | 100.0 | 96.8 | 100.0 | 100.0 | 94.7 | 100.0 | 89.5 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 98.7 |
| 7 (80) | 85.7 | 100.0 | 100.0 | 87.1 | 96.8 | 100.0 | 84.2 | 100.0 | 63.2 | 91.7 | 100.0 | 93.8 | 100.0 | 100.0 | 94.1 |
| 8 (65) | 71.4 | 100.0 | 96.3 | 48.4 | 83.9 | 96.3 | 78.9 | 93.3 | 31.6 | 91.7 | 100.0 | 93.8 | 100.0 | 90.9 | 83.8 |
| 9(50) | 100.0 | 100.0 | 96.3 | 93.5 | 96.8 | 100.0 | 89.5 | 93.0 | 94.7 | 83.3 | 100.0 | 81.2 | 100.0 | 100.0 | 94.1 |
| 10 (80) | 100.0 | 100.0 | 74.1 | 74.2 | 83.9 | 100.0 | 84.2 | 100.0 | 84.2 | 91.7 | 85.7 | 84.4 | 100.0 | 100.0 | 88.8 |
| 11 (65) | 71.4 | 94.4 | 63.0 | 41.9 | 64.5 | 85.2 | 68.4 | 73.3 | 36.8 | 83.3 | 85.7 | 56.2 | 95.8 | 86.4 | 70.6 |
| 12 (65) | 0.0 | 44.4 | 33.3 | 41.9 | 54.8 | 92.6 | 78.9 | 66.7 | 42.1 | 75.0 | 57.1 | 53.1 | 87.5 | 63.6 | 59.1 |
| 13 (80) | 85.7 | 83.3 | 100.0 | 96.8 | 80.6 | 96.3 | 100.0 | 80.0 | 89.5 | 100.0 | 71.4 | 96.9 | 95.8 | 100.0 | 93.1 |

**Note.** N=303.

[a]Represents criteria for each objective.

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## APPENDIX F

**Table F-1**

**Prekindergarten Families Attaining Objectives Regarding the Parents as Partners**

| School | Number of Students Enrolled[a] | Parent Participation Objective 14 | | Parent Meetings Objective 15 | | Homework Activities Objective 16 | |
|---|---|---|---|---|---|---|---|
| | | # | % | # | % | # | % |
| Baillie | 8 | 6 | (75.0) | 7 | (87.5) | 8 | (100.0) |
| Coulter | 18 | 13 | (72.2) | 15 | (83.3) | 18 | (100.0) |
| Emerson | 31 | 20 | (64.5) | 21 | (67.7) | 28 | (90.3) |
| Haley | 32 | 23 | (71.9) | 26 | (81.3) | 28 | (87.5) |
| Heavenrich | 32 | 32 | (100.0) | 30 | (93.7) | 32 | (100.0) |
| Houghton | 28 | 28 | (100.0) | 28 | (100.0) | 28 | (100.0) |
| Jones | 18 | 18 | (100.0) | 18 | (100.0) | 18 | (100.0) |
| Longfellow | 16 | 12 | (75.0) | 16 | (100.0) | 15 | (93.7) |
| Longstreet | 18 | 9 | (50.0) | 11 | (61.1) | 17 | (94.4) |
| Loomis | 26 | 24 | (92.3) | 26 | (100.0) | 25 | (96.2) |
| Morley | 9 | 9 | (100.0) | 9 | (100.0) | 9 | (100.0) |
| Rouse | 35 | 30 | (85.7) | 32 | (91.4) | 30 | (85.7) |
| Webber I | 24 | 23 | (95.8) | 24 | (100.0) | 24 | (100.0) |
| Webber II | 28 | 23 | (82.1) | 26 | (92.9) | 28 | (100.0) |
| TOTAL | 323[b] | 270 | (83.6)[c] | 289 | (89.5)[c] | 308 | (95.4)[c] |

**Note.** N=323.

[a]Number of students enrolled and attending program for at least four months.

[b]While some students were enrolled at more than one site during that year, each individual student was counted only once in these statistics.

[c]Objective attainment:
--Parent participation by at least 60% for at least four school activities.
--Parent meetings by at least 60% for at least four Friday meetings.
--Homework activities by at least 80% for at least nine home activities. (See Appendix D for additional decision rules).

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