ABSTRACT
                An investigation of the interaction patterns of
Polynesian and Pakeha (New Zealanders of European extraction)
children and teachers in school and play areas of Auckland, New
Zealand was undertaken to discover possible ethnic differences in
modes of social interaction relevant to learning. Observations of
children (ages 2 to 11) and their supervisors at 26 preschools and
primary schools were recorded. Analysis of the observational data
revealed marked Polynesian - Pakeha differences in modal patterns of
interaction. Two contrasting principles for the formation of social
units with implications for cognitive functioning were observed; (1)
the Polynesian "inclusive" style promoting the formation of
integrated groups, feelings of social solidarity and cooperation, and
(2) the European "exclusive" style resulting in parallel activities
by individual units or intensely associated pairs. Variations by
setting and ethnic mix were also reported. The relation of this study
to recent research on group problem-solving was discussed, and the
possible value for all children of introducing more group
problem-solving techniques in the classroom was raised.
(Author/BRT)

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INCLUSIVE VERSUS EXCLUSIVE INTERACTION STYLES IN POLYNESIAN AND

EUROPEAN CLASSROOMS:

In Search of an Alternative to the Cultural Deficit Model of Learning[1]

Nancy B. Graves, Ph.D.

South Pacific Research Institute

Research Report No.5

March 1974

ABSTRACT

Systematic observations of behavior in various school settings revealed marked Polynesian - Pakeha differences in modal patterns of interaction. These illustrate two contrasting principles for the formation of social units with implications for cognitive functioning. The Polynesian "inclusive" style promotes the formation of integrated groups, feelings of social solidarity and cooperation. The European "exclusive" style results in parallel activities by individual units or intensely associated pairs. Variations by setting and ethnic mix are also reported: in settings where they are a distinct minority, Polynesians less frequently display an inclusive style. The relation of this work to recent research on group problem-solving is discussed, and the possible value for all children of introducing more group problem-solving techniques in the classromm is raised.

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Introduction -

Study of the adaptation of non-Western, traditional peoples to the spread of modern, and especially industrial and urban, systems of economic and social life is a major problem-area in social science today (Graves and Graves, 1974a). Most commonly, the focus of the investigation is on the adaptive abilities of the traditional peoples in adjusting to modern society, and little interest is paid to the adaptations which are necessarily being made by the "host" or "majority" culture as well. This follows from the "assimilation" ethic which typically characterizes these contact situations: rarely are they seen as providing an opportunity for the dominant group to learn from the minority groups as well.

Nowhere is this assimilative policy more strongly espoused than in the educational institutions of modern society. If there are major differences in the values, socialization practices, or interaction styles between the various culture groups in an area, the schools are an arena where these contrasts are vividly revealed. The adaptive strategy generally taken by modern Western educators toward the problem of culture contrasts has been to consider "How can we best teach them to become more like us so that they can share the advantages we enjoy?"

In the 1960s such concerns with the "cultural deprivation" of migrant or minority groups led to compensatory education experiments. These were based on a "deficit model" which postulated a host of disadvantages in the traditional culture: lack of achievement motivation, lack of ability to delay gratification, lack of independent initiative, lack of an elaborated verbal code (Ausubel 1967; Bernstein, 1964; Chilman, 1966; Hunt, 1969; Irelan, 1966; Lewis, 1966 a and b; Miller, 1958; Moles, 1965; Moynihan, 1966; Pavenstedt, 1965; Rainwater, 1968; also see the review of deprivation studies by Jessor and Richardson, 1968). In the 1970s some of the maladaptive consequences of assimilist educational policies have been

recognised. Among social scientists dissatisfied with the cultural deficit model there has recently arisen a series of new strategies for investigating the learning of non-Western peoples (Boggs, 1973; Cole, 1973; Cole, et. al., 1971; Gallimore and Howard, 1969; Howard, 1970, 1973; Leacock, 1971). These approaches involve understanding learning and performance of mental tasks in naturally occurring circumstances --- in their "cultural context", to adopt the phrase used by Cole. In the present climate of professional introspection, criticism and experimentation within education, this strategy of searching for what is there in a system of traditional learning, rather than for what is absent, would seem appropriate.

We have begun an investigation along these lines by observing the interaction patterns of Polynesian and Pakeha (New Zealanders of European extraction) children and adults in schools and play areas of a modern city: Auckland, New Zealand. Our aim was to discover possible ethnic differences in modes of social interaction relevant to learning, how these differences are acquired, and what implications these might have for educational programs in a multi-ethnic society.

Methodology -

In the initial, exploratory stages of social research, naturalistic observation is one of the most productive methods for generating theory. We chose therefore, to begin our investigations with open-ended, sequential narratives of on-going behavior in classrooms, playgrounds, or play centres: among children, between teachers and children, teachers and teachers, teachers and parents, and mothers and children. This method did not force us to assume that we knew beforehand which categories of behavior were appropriate to the situation. It also allowed categories which were frequent across settings or observers, or which varied in certain

systematic ways, to come to our attention inductively and thus to stimu-
late efforts toward theory construction (Glaser and Strauss, 1967).[2] To
maximize the possibility of discovering such systematic variation, we
endeavoured to choose settings with .different ratios of European and
Polynesian children, teachers and mothers, as well as selecting from
differing types of activities: indoor and outdoor situations, structured
and unstructured tasks. From this material it is possible to conduct
"controlled comparisons", where some factors are matched between schools
while others are left to vary. To date we have purposively (rather than
randomly) sampled 26 schools or play centres, in many of which we have
observed in a number of different classrooms or play areas. Twenty-two
observers have recorded narrative and/or systematic observations on 66
different occasions.

Initially, observers were instructed to choose settings where inter-
ethnic contact was possible, and to describe fully, in narrative sequence,
all actions observed within a certain time span. (This varied from ten
minutes to one hour with different observers, with the emphasis on
naturally occurring incidents rather than strict time-sampling). Besides
the usual concern with verbal and behavioral content, particular attention
was also paid to non-verbal behaviors such as eye-contact, body orienta-
tion, distance from other people, touching, and facial expressions. After
the initial set of observations, observers attempted, whenever possible,
to observe three combinations of interacting dyads in the same setting:
European-European, European-Polynesian, and Polynesian-Polynesian.
Finally, with the emergence of major categories such as reported here,
systematic observations were undertaken to establish their relative
frequency in different settings.

The majority of these observations are of children (ages 2 to 11)

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and their supervisors at preschools and primary schools in the Auckland metropolitan area. The narrative reports were content-analyzed for both qualitative and quantitative descriptions of frequently occurring behaviors. One contrasting set, which we call "inclusive versus exclusive" behavior, was observed in many different contexts, and seems to have wide-spread implications for normative patterns of problem-solving and work in Polynesian and English-based cultures.[3]

Inclusive versus Exclusive Modes of Interaction -

The individuals within any school setting do not randomly associate with each other. Nor are individual personalities the sole determinants of social choices. Rather, normative patterns provide a framework for interaction, and these norms may differ from culture to culture and between settings within a given culture (Hall, 1959; Watson and Graves, 1966). In our observations two contrasting principles appear to govern the formation of social units within these settings. One involves interacting individuals in functioning, integrated groups, the other concerns the operation of individual units in parallel activities or intensely associated pairs. As we have come to define it, "Inclusion" is a principle for interaction which aims at perpetrating a sense of belonging, membership, or solidarity among persons, incorporating them into a group. A group is to be thought of as more than an assemblage of individual units; it has members, each of which is related to the others in some definable way. Acts of inclusion encompass such behaviors as greetings, welcomes, invitations to join an activity, and organized or spontaneous group activities with a single goal entered into by the participants. Group boundaries are generally flexible and loosely defined: stringent limitations or criteria for joining are not placed on entering members of the group when operating on an inclusion principle. "Exclusion", on the

other hand, is a standard for interaction whereby either solitary activities while in the presence of others (eg: "parallel play") or a one-to-one intensive relation with a single other person is seen as an appropriate basis for personal relationships. In order to maintain such a state it is sometimes necessary to ignore or reject other persons and frequently the qualifications of someone with whom you may consider forming an exclusive relationship must be ascertained. Under such a principle of interaction, three very quickly becomes a crowd. Where this principle is operating, aggregations of children which at first glance appear to be groups with three or more members will often upon examination of the inter-action prove to be conglomerations of two-somes, or several children vying for the exclusive attention of one popular member on a one-to-one basis.

The adults in a learning setting (teachers, supervisors, or parents) often set the tone for appropriate interpersonal relations in that setting. To be more specific, a schoolroom or play centre can be seen primarily as a social setting: a place where people come together to interact freely, learn to work and play together, exchange knowledge and opinions, and form new social ties. Or it can be seen mainly as a physical location for the collection of individuals who have come to learn individual skills from other individuals, with the aid of appropriate objects and materials. According to the latter view, some of this learning may take place in groups, but much of it can proceed on its own under the trained direction of adults in the setting. These two different views entail quite different approaches to interaction and to the imparting of learning skills. Under the first assumption, that school is a social grouping where participation is important, efforts will be made to integrate children into the group, help them feel a part of on-going activities, teach them to contribute to a group effort. Under the second principle, most of the adults' energy will go into providing physical

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facilities with materials from which the children may learn on their own, under expert guidance. The ultimate in this approach is the use of individually programmed, computerized, learning machines. One-to-one tutoring is encouraged and group activities allowed only under certain circumstances. Children are expected to be mainly self-directed, choosing their own activities during free time, accepting and following through on tasks given them by adult authority at others. Social integration, while perhaps essential to the total well-being of the child, is not considered especially relevant to the educational process.

While either Polynesian or Pakeha teachers may display one or the other of these approaches to the learning experience, the exclusive mode predominates among European teachers, perhaps due to the emphasis on individual achievement in most modern Western-oriented school systems. Since the child's first pre-school experience may pattern much of his attitudes toward and behavior in school, we will begin by illustrating these principles as they contrast between Polynesian-run and European-run pre-schools.[4]

The Play Centre in our first example is situated in an area of Auckland which has a mixture of Polynesian and European residents; and the Centre, which was founded to service Polynesian families, now draws half its members from each ethnic group.[5] The Kindergarten used in these illustrations is in a Western suburb of Auckland with a fairly small proportion of Polynesians, and only a few Polynesian children were enrolled. In the first examples we have chosen two incidents from each setting involving children entering the school for the first time. These make clear the supervisor's contrasting approaches to the preschool experience.

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Example 1: Polynesian-run Play Centre

A. A well-dressed, young European mother with her four year
old boy, also neatly outfitted, arrived at the door. She
looked round at the mothers but did not smile. Noticing
one mother breast-feeding her baby, she quickly looked the
other way and went to sit in a chair near the play-house,
holding her son's hand. She sat with her back to the group
of mothers near the door. Looking up from where she was
playing with the children, the Polynesian supervisor, casually
dressed, noted the entrance of the new mother and child.
Walking up to where they sat she smiled and said "Hello"
brightly. The mother smiled briefly, and immediately looked
down to get out a cigarette and light it. The Supervisor
then turned to the boy, saying "Hello, Michael. Come and
play with the other children." She took him by the hand
and led him toward the trolley, bending close to his head
and talking all the while. She played with the children on
the trolley for about ten minutes.

B. On another occasion, the same supervisor, after seeing
a new four-year old boy working on solitary tasks near his
mother, came over to the table where they sat and said,
putting her arm around him, "Come on, Peter, shall we go
build something?" She directed him to the block corner
and helped him make a road. She directed him warmly, saying
"Let's make a bridge, honey. Can you bring me some of those
long blocks?" Soon a Polynesian girl came to look, and the
Supervisor invited her to join in: "You want to build, too,
Mary? Come on, now!" Seeing a European boy at the doorway
with his mother, the Supervisor again invites, "Come on,
John, you want to build, too?" A group activity begins to
form around the Supervisor.

Example 2: European-run Kindergarten.

A. A casually dressed European mother enters with her four
year old son. She goes up to the Kindergarten Supervisor
who is standing near the painting easels watching a child
paint. The Supervisor is fashionably dressed in a white skirt
and blouse, stockings, and dressy shoes. The mother greets
the teacher first saying "Hello," with a smile. She replies
with a smile and says "Hello, Tommy" to the child. The child
does not respond but looks away, embarrassed. The mother
prompts, "Tommy, this is your teacher." "Carol," says the
Supervisor, smiling. The mother and teacher then sort out
the proper time for arrival at kindergarten in the future,
while the child looks cautiously around the room. The
Supervisor then says to Tommy, "If you need any help, just
ask." The boy looks at the floor. The Supervisor continues
to smile but does nothing further. Tommy looks up at his
mother and suggests "Let's look around the school, Mummy",
pulling at her hand.

B.   Tommy then chooses the one solitary area where there are
no other children playing at present, the block rug. Later
when he goes to the toilet he comes back to find other
children also playing there. He complains to his mother, who
encourages him to continue playing. He does so, but ignores
the other children and they ignore him. After this goes on
for a while the Supervisor comes over to a European boy near
Tommy, and says, "Bobby, this is Tommy. Tommy, this is
Bobby." Both boys look down and ignore the Supervisor's
statement. She begins to explain Tommy's situation: "Do you
remember when you first came, Bobby? You didn't know anyone
did you? Remember how alone you felt? That's how Tommy
feels." She continues this for a while, crouching beside
Bobby, but touching neither child. Bobby ignores Tommy and
vice versa. Soon the teacher leaves, without speaking to two
Polynesian boys also playing on the rug, and Tommy, evidently
feeling exposed and uncomfortable, goes outside.

In Example 1, the Polynesian supervisor used a technique for

integrating the child into the group which was often observed

among Polynesian adults at this play centre: that of placing him

hysically in a group and then interacting with all the children

as a group. A second method, which she used in instance B, was to

involve the child in some fascinating activity in which she herself

participated whole-heartedly (this was possible since she dressed

in casual clothing) making loud comments and enthusiastic remarks

the while. She then began to invite in ot. er children who were

enticed into this obviously enjoyable game. Since she used every-

one's name frequently and spoke in a medium-loud, clear tone, formal

introductions were unnecessary. Peter was never confronted

directly with his "new boy" status, and the other children came

to know him in the context of a group activity with a person

they admired and loved, their teacher. The Polynesian supervisor

was often seen encouraging children into activities away from

their own mothers, with whom they were likely to maintain exclusive,

intensive interactions. The mothers, in turn, were encouraged to

help out with all the children. The Supervisor's own son also

attended the Play Centre, but he was seldom seen engaged in

exclusive interaction with her.   10

In the second example, the European Supervisor was friendly and welcoming, but somewhat formal and distant. She was extremely pretty and neat looking, but not dressed for play with the children. During the morning's observation she mainly watched the children at their activities, once grooming the guinea pig while the children clustered around. Her techniques for integrating new persons were formal introductions, verbal explanations, and a courteous, smiling manner. She did not touch the children, and did not physically reduce herself to their level by playing with them. Rather, she expected them to choose their own activities and to express to her a need for help if they wanted attention. Left on their own, children feeling shy and out-of-place did not choose group activities but wandered alone from area to area. The teacher's request for empathy from Bobby for Tommy was laudable, but the formal introduction and long-winded explanation only seemed to embarrass both boys. When it did not produce the desired results (presumably she wanted Bobby to take Tommy under his wing rather than to encourage a group activity, since she did not speak to the other two boys on the rug), the teacher let the matter drop.

It is doubtful whether either supervisor consciously was putting into practice her private principles of appropriate interaction. However, her ideas of the atmosphere appropriate to a school as well as her customary social behavior toward persons in general surely influenced her choice of actions. Other aspects of the European-run setting seem to indicate that children are viewed as individual units operating essentially on their own. The Kindergarten is equipped with separate cubby-holes for personal possessions and separate wash-cloths and

towels for each child. Each child is expected to serve himself
milk and apples at a little table, picking out his own glass from
a tea-tray, whenever he chose. Children were praised by the
supervisors for good individual work ("That's a nice necklace
you strung!", "Oh, look at your painting"), but cooperative
efforts, such as the joint building of a block structure, were
often ignored.

By contrast, at the Play Centre cited above all the children
used a common basin and towel (one each placed near the dough
table and the painting easles). They were fed a snack of milk and
apples or biscuits in a group at the time of the most inclusive
group activity: singing and dancing. All the mothers and children,
drawn together by the serving of food, stayed to participate in
singing until the younger children grew bored and drifted away.
While many of the arrangements for caretaking (cleanliness,
feeding) may be largely determined in both settings by practical-
ity and monetary considerations, they also incidentally may reflect
a different attitude toward the school experience and the placement
of the individual child within it.

The operation of the inclusion-exclusion principle may also
be seen in the way in which the parents are related to the school
and how they behave once they are in it. Polynesian parents who
do not encounter a group-oriented approach to social interaction
when they visit a school may often feel unwelcome and uncomfortable,
even if no directly excluding acts occur. Observations at a number
of Parent-Teacher meetings in different schools indicate that Pakeha
in charge of such meetings tend to present agenda without much
explicit welcoming behavior beyond perhaps one simple phrase. The
procedure is formal and restrained and usually focused on specific

tasks or activities (a new reading program or change in curricula,
sports events, money-raising activities) rather than relationships.
After the meeting, parents must initiate contact with teachers or
principals, who often stand as though at the head of a class, while
the formal procedure during the meeting discourages participation
and discussion.

On the other hand, a Maori woman, helping to organize a parent
meeting around school issues, found that she was highly successful
in encouraging parent participation by simulating the situation
to be found on a Maori marae, with all the traditional roles and
ceremony. Under these circumstances Polynesian parents
felt appropriately welcomed and secure in the knowledge of their
proper social roles. A marae in New Zealand Maori culture is
technically the space or courtyard in front of the communal
meeting house and stands as the symbol of the home territory of
the sub-tribal group. More importantly, however, the marae is, in
an interpersonal sense, the "stamping ground" (tuuranga wae
wae) where matters of significance to the group are thrashed out
in lengthy discussion. No one is excluded from this process and
decisions are arrived at gradually by group consensus. It is
also significant that rules of inclusion and exclusion are
incorporated in Polynesian languages in the delineation of
personal pronouns. Salmond (1974) notes that only after the
welcoming ceremonies for visitors are over is the use of maatou
(exclusive "we") by the home group (tangata whenua) ceremonially
changed to an honorific taatou (inclusive "we") when referring to
everyone present during the after-dinner songs in the meeting
house. Having thus been ceremonially included both verbally and
nonverbally (norms of spatial use and physical posture accompany

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the acceptance rituals), the visitors can participate in the activities of the marae and even welcome the next group of visitors who may arrive.

Similarly, at the Polynesian-run Play Centre, parents' meetings focus on welcoming acitivites encouraging full participation. Formal procedures, such as reading of the minutes, are discarded and the Polynesian Supervisor, aware of European meeting standards, warned me "You may not find it quite orderly. People get quite involved and carried away". Europeans, on the other hand, may feel embarrassed and uncertain in the unfamiliar structure of a Polynesian-dominated situation. The following examples illustrate differences in behavior towards parents in Polynesian and European-run educational settings:

Example 3: Polynesian-run Play Centre

A. After integrating the new child Michael (Example 1A) into the group of children, the Supervisor returned to Michael's mother, sitting alone on her chair. She walked up to her and said loudly and cheerfully, "Have you got a cigarette?" The European mother looked up with a startled expression. Noting her discomfort, the Supervisor quickly changed the request, continuing "Have you got a menthol?" Obviously flustered, the mother looked down at the packet in her hand and quickly said "No, I haven't. It's filter." The Supervisor laughed and remarked, "That's no good to me, then", and moved on to a Polynesian mother, calling out clearly "Have you got a menthol?" The European mother, quite flushed, looked away.

B. Fifteen minutes after the observer had arrived, the Supervisor told her that several of the mothers had inquired whether someone had "taken care of the new mother", as she was presumed to be, and whether she needed a cup of tea.

Example 4: European-run kindergarten

A. After Tommy's mother had spoken to the Head Supervisor she took a chair near the block rug while Tommy played. The second Supervisor, also European, sat at a table nearby helping a child string objects. She ignored the mother until the Head Supervisor brought her over and formally introduced her to the mother. A few polite words were exchanged and the Supervisor went back to her work. Two

teacher-trainees were also in the room when the mother
entered. One looked up briefly when the mother looked her
way, but quickly looked down again at the work she was
preparing for the children. Later on the mother introduced
herself to the only other mother in the room and exchanged
a few words. It appeared that this mother often helped
out at the kindergarten, but mainly because she had no
transport and needed to stay to walk her sons home
afterwards.

B. The Supervisor told the observer that the occasional
mother would help out at kindergarten from time to time,
but that it was just as well not to have too many. The
previous year, another Supervisor assisted the observer
by telephoning and arranging for a Polynesian mother to
help out since these mothers rarely attended. The mother
came but had no interaction with the other mother present,
a European.

In the first example it seems that the Pakeha mother did

not know how to respond to the informally inclusive behavior of

the Polynesian Supervisor. The cigarette request, intended to

make the mother feel a part of the group by giving her a chance

to help someone out, may have seemed overly presumptious or

forward by the Pakeha mother. Seeing her reaction, the Supervisor

quickly made it possible for her to refuse the request gracefully.

European mothers who had been at the Play Centre for some time,

recounted to the observer how the Supervisors had often smoothed

the way for them in difficult social situations, making them feel

at home and helping them to become more at ease with the Polynesian

mothers. The Play Centre this year has from eight to ten mothers

attending almost every day. They interact freely and plan social

events to raise money for the centre.

Even among the mothers in Polynesian-run play centres a cultural

difference in patterns of interaction of mothers with children was

found. In the Play Centre cited above, an equal number of Polynesian

and European mothers were observed systematically for the extent to

which they interacted exclusively with one child (whether or not

their own), versus interacting with a number of children in a group

(of which their own child might or might not be a member). During
twenty play centre sessions recorded over a six month period, 75%
of the episodes of mother-child interaction rated as "inclusive"
involved a Polynesian mother, while only 25% of such episodes
involved a European mother. Of the episodes of "exclusive" inter-
action, 83% was accounted for by European mothers, while Polynesian
mothers acted exclusively in only 17% of such episodes (Denée,
1973: 27). The following examples illustrate these differing
socialization techniques among Polynesian and European mothers:

Example 5: Polynesian mother

> Polynesian mother helps Claire and Hayley to draw. She
> draws something for them. They listen as she talks about
> her drawing. European mother enters with daughter.
> Polynesian mother calls out "Hello!" She comments on a
> toy telephone that Takai holds out to her, with a grin
> on his face. She takes the telephone and pretends to
> hold a conversation with Takai. Then she turns again to
> drawing.....Ioapa (her son) is doing a puzzle. Polynesian
> mother says: "Gee, you're a smart little thing. Do you
> want to do another one?...No?..." She lifts him off the
> chair and says: "Come on", as she heads in the direction
> of the blocks. She calls out to David (on a tricycle),
> "Come on, David". Ioapa says: "The slide! The slide!"
> so the mother heads for the slide instead. She calls to
> David again, but David just stares back. Takai runs over
> to her and Ioapa at the slide. The mother says, "Wheee...",
> every time one of the two boys comes down the slide. She
> calls to Elizabeth to come, but Elizabeth continues to
> draw. Then she calls to Samantha, who shakes her head and
> continues to play with the blocks. Suddenly the mother
> grabs Takai and says "Stand there and I'll get something
> for you". She fetches two tires from the stage nearby.
> She rolls one to Takai and Takai rolls it back, jumping
> up and down as he does so. Hayley joins them and so does
> Ioapa, who has been watching from the top of the slide. The
> mother arranges them in a circle and fetches more tires.
> Samantha and Claire join in too. The Polynesian mother
> continues rolling, calling "Here's one for you...and here's
> one for you. Wheee... That's the girl....Ohhh...Here it
> comes!" Five more children are encouraged by the mother to
> join in the fun.

Example 6: Pakeha mothers

> A European mother plays with her son, David, at the puzzle
> table. "Will it go in there?...Pick up the pieces...Go on...
> pick them up". David loses interest in the puzzle and climbs

up into his mother's lap. They sit like that for about ten
minutes.

Another European mother is sitting at the side of the hall.
Her daughter, Christina, is playing nearby with a pram. Four
other children are playing near this mother too. Christina
runs to her mother and pulls her hand. The mother gets up,
goes to the pram, comments on how nice it looks, then returns
to her seat... Later the mother calls Christina and takes her
to the milk table. She gets one cup of milk and one apple
and feeds these to her, putting the child on her lap. She
then takes Christina to the dough table and seats herself
on a chair nearby.

In the above illustrations, the Polynesian mother overcomes
an attempt by her son Ioapa to engage her in exclusive interaction.
She makes repeated efforts to involve other children with her son,
and when the activity he has chosen fails to attract the others,
she invents a new game which is highly successful. At other times
this mother was seen to divert her son from crying over an injury
by placing him in the center of a group activity in the same
fashion. The European mother, on the other hand, when her son
tires of a game, does not begin a new one or relate him to other
children, and the European mother ignores children playing
near her and her child. Neither of these mothers participates
much in the children's activities.

Since it was hypothesized that placing the child in a group
or relating to him as an individual might be reflected in the
values surrounding the conception of the "good" or ideally desirable
child, Denée interviewed Polynesian and European mothers from the
Play Centre, asking them to describe the three-year-old child they
would like best for themselves. Polynesian mothers tended to give
responses which reflected a concern for getting along in the
community or social group: two-thirds (67%) of their responses
described a child that was well-behaved, obedient, non-aggressive,
sociable, or sharing. The European mothers, on the other hand,

more often chose descriptions which would be categorized as
individual or child-centered: 80% of their responses indicated
a child who was happy, healthy, independent or enquiring.
(Denée 1973:30).

We have seen how inclusive or exclusive styles of inter-
action are socialized by teachers or mothers. It is also important
to understand how the children themselves express these interaction
modes in the school situation. In general, we found both Pakeha
and Polynesians expressing both styles, but Polynesian children
were more likely than Europeans to be observed in inclusive acts.
This was particularly true when the observations were made in
schools where the student body was predominantly Polynesian. In
this example from a central Auckland school, situated in an area
with a heavy concentration of Pacific Islanders, the following
scene took place during morning break on the playground:

Example 7: Inclusive behavior exhibited by Polynesian children

> Two Polynesian girls, Sally and Venetta, both aged about
> six, were walking along, holding hands, giggling, and
> talking together. Sally laughs, and places her arm around
> the neck of Venetta, giving her an affectionate hug.
> Suddenly, they both stop walking. Sally has seen a European
> girl, Wendy, standing silently alone, looking very sad.
> Sally goes up to her and asks, "What's the matter?" She
> moves to put her arm around the European girl while still
> maintaining her relation with Venetta by keeping her other
> arm around Venetta's neck. The European child does not
> respond, however. She turns her head away and avoids
> visual contact.
>
> Sally then releases her hold on her Polynesian friend and
> places both arms around Wendy. She turns her head toward
> Venetta, however, and remarks, "I think she's lost that
> other girl." Wendy remains very rigid in Sally's arms.
> She is continuing to look at the ground.
>
> Venetta then suggests, "She's over there. Come on!"
> At this Wendy looks up and appears to relax a bit,
> although she is still upset. Sally and Venetta arrange
> themselves on either side of her and, putting their arms
> around her, turn and walk together with Wendy toward the
> jungle gyms.

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As the trio approaches, a European girl playing on the
jungle gym looks up, jumps off, and moves quickly away.
Wendy follows her departure with her eyes for a moment,
then seems to undergo a change of mood. Turning toward
the two Polynesian girls, she smiles, and takes Sally's
hand. Venetta moves closer to Sally, who gives her a
playful push. All three girls laugh together and begin
to play.

Here we have seen two Polynesian girls engaged in what might

be considered an intensive, exclusive relationship. Yet they are

sensitive to the plight of another child who has just been

abandoned by a playmate and immediately include her in their

group. They also try to solve her social problem by finding the

girl who has left her. When this girl rejects her once more, the

European child turns to her Polynesian friends and accepts their

warm inclusion whole-heartedly for the first time. If there is

any jealousy on the part of Venetta as might be indicated by her

approach toward Sally after the European girl has taken her hand,

it is handled lightly with a joke and a push and quickly

forgotten. This solution to the threesome situation is quite

different from that encountered by a Maori boy in an otherwise all-

European kindergarten situated in an upper middle-class European

neighborhood:

Example 8: .Exclusive behavior exhibited by Pakeha children

A European girl, Susie, has been playing for some time with
a Maori boy, James, when the observation begins. Susie tends
to flit from activity to activity, seemingly using this device
to keep James under her influential leadership. After
initiating play on the climbing frame, she runs off, calling
for him to follow, and sits down at the rear of a group
listening to the Supervisor reading a story. After climbing
a bit more, James approaches the group, and Susie greets him
with a loud "Hi, James!"

The Supervisor stops reading and looks up at James, as do all
the children, turning round in their seats on the mat. The
Supervisor looks annoyed. James drops his eyes and moves
away from the group. Susie then follows him, and the
supervisor resumes her story.

After this, James begins to play in a large box, inviting Susie to join him. .Susie cries, "Wait for me, James" as she runs up to him. James calls across to another girl, "Julie, come on! We'll let you in; enough room!" Susie asserts herself then by calling "Hurry up Julie!" But when the girl arrives, Susie blocks her entrance to the box, crying "There's no room!" Following Susie's lead, James also says, "There's no room for you." But Julie pushes her way into the box anyway, and the other two move over to make room for her.

Subsequently the game changes to hide-and-seek, instigated by Susie who calls "Come find us" to a nearby boy and then ducks down inside the box. This boy has been digging in the sandpit and approaches with a heavy shovel-ful of sand held threateningly in his hands. All three children, alarmed, stand up in the box, and James says quickly, "Don't hurt me, will you, because I'm your friend!" The boy stops and watches the children.

The three children leave the box, and as they do so, Julie says to James, "_I'm_ going to be Susie's friend!" James ignores this remark and follows Susie to the swings. Susie retorts to Julie, "No, I'm James' friend!", and James echoes "She is." Whereupon Julie kicks James in the shin, and he ignores her.

This sequence of incidents illustrates the way in which a Polynesian child, highly motivated by a need for inclusion, learns the exclusive style of interaction which calls for an intense involvement with one person to the exclusion of others. James has learned that his playmate wants this sort of relationship and avoids offending her by adopting it himself, although his own tendency was to invite other children into the activity. James' first reaction under threat of attack is also to respond with an inclusive act, as when he says to the boy with the shovel, "Don't hit me; I'm your friend." (Other observations have shown Polynesian children attempting to mollify hostile European children by offers of assistance with school work or the loan of a piece of equipment, such as a pencil or rubber eraser). Note also, however, that Susie twice follows James' inclusive lead: seeming to allow Julie in (though later barring her when she arrives) and calling to the other boy. Still her natural tendency seems to be

to form an exclusive relationship, keeping James to herself.

Judging from the limited data we have available at higher
level schools, by the time children reach teen-age, their patterns
of interaction with others at school may be fairly well set. In a
high school with a high concentration of Polynesians in a South
Auckland suburb, for example, the Physical Education teacher
commented to the observer that she finds the Polynesian girls much
more interested in team sport, more cooperative with her and the
other children, and less "catty" and "cliquey" than the European
girls in general. During the gym period observed at this school,
the Form III girls who chose basketball, a team sport, were all
Polynesian with the exception of one immigrant European of Dutch
background. Friendly conversation, joking, and encouragement, both
among team members and between teams, was the general pattern during
the game. The rest of the girls in the class, all Europeans, chose
patterball --- a rather unenergetic game played by two persons and
little friendly interchange occurred between pairs.

These examples of modal differences in the behavior of Poly-
nesians and Europeans should not be taken to mean that these ethnic
differences were uniformly displayed either within or between
settings. Both individuals and schools varied in their amount of
inclusive and exclusive behavior. But in over 1500 acts recorded
on this dimension[6] at 13 preschools and 11 primary schools,
Europeans were overwhelmingly exclusive in their behavior while
Polynesians were overwhelmingly inclusive. (See Table 1.)
Furthermore, whereas the proportion of Polynesians in the school
had no large or consistent effect on the modal pattern of Pakeha
behavior, Polynesian behavior showed a dramatic shift: in schools
where Polynesians constituted a majority, about three-quarters of

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Table 1

Inclusive - Exclusive Behavior in School Settings *

School Level	Polynesians		Pakehas	
	Inclusive - Exclusive		Inclusive - Exclusive	
Preschools	64%	36%	31%	69%
Primary Schools	63%	37%	20%	80%

* Based on over 1500 acts observed on this dimension within 24 school settings

their behavior on this dimension was <u>inclusive</u>, but in schools where there were only a few Polynesian students, the majority of their acts were <u>exclusive</u>. (See Table 2.) By contrast, in

Table 2

Effect of Ethnic Composition on Inclusive - Exclusive Behavior

Proportion of Polynesians in Setting	Polynesians		Pakehas	
	Inclusive - Exclusive		Inclusive - Exclusive	
≥ 50%	74%	26%	20%	80%
10-49%	65%	35%	18%	82%
< 10%	41%	59%	31%	69%
none	-	-	36%	64%

settings with large numbers of Polynesian students, Pakehas were even more exclusive in their behavior than in settings where they were clearly dominant.

From a careful examination of the data it does not appear that Polynesian children were simply adopting a Pakeha mode when they were in the minority, although sometimes this occurred. Nor

did we observe many instances of overt discrimination, in which
they were being rejected by Pakeha children. More frequently they
appeared shy, had little influence over the mode of interaction
used in the setting, and found it easiest to attach themselves to
one friendly person. Similarly, it may be that Pakeha mothers and
children, when they are in a Polynesian dominated setting, are
more shy and unsure of themselves, and take refuge in more
exclusive patterns of behavior. Even when severely outnumbered,
however, Polynesians remain more inclusive in their behavior than
Pakeha.

Discussion and Implications -

Anthropologists or other cross-cultural researchers with
experience in Polynesian or other traditional settings will easily
recognize many of the behaviors reported above as features of inter-
action in such societies. Placing a child within a peer group is a
common socialization technique in many Polynesian groups (Boggs, 1973;
Firth, 1963; Gallimore, McDonald and Howard, 1969; Hocart, 1929;
Howard, 1970; Levy, 1969; Mead, 1928), and Ritchie (1972) has recently
labelled this form of child rearing a feature of the "co-relative"
family. In this type of socialization, the child is raised by many
adults as well as trained by many other children. Ritchie postulates
that this should result in a "flexible accommodation to the needs of
others, what Riesman once called 'other direction' (1950), low long-
term personal aspiration levels, but great social responsiveness"
(1972:91). In traditional groups this socialization style places a
great deal of emphasis on sharing and cooperation, behaviors which
are highly adaptive in small, closely-knit societies with subsist-
ence economies. By contrast, European children raised within small
nuclear families have less opportunity to acquire a level of skill

in interpersonal relations and group functioning which is commonly
exhibited by Polynesian children.

Patterns of social interaction which we have labelled "inclusive"
are carried over into styles of cooperative work and group problem-.
solving. Unlike Western society, traditional man typically does not
separate "tasks" from personal relationships. In such societies it
is common for working parties, sewing bees, and other task-oriented
groups to work willingly because of the inherent social rewards in
being together. The extended family group often gathers for problem-
solving and decision-making, solutions being arrived at through group
consensus under the guidance of elders sensitive to individual
feelings. Thus, problem-solving is a part of a total pattern of
inter-related social behaviors.

These patterns of inclusive, group-oriented problem-solving
constitute highly adaptive coping strategies which can also be
employed effectively within the context of modern, industrial
society (Graves and Graves, 1974a and 1974b). For example,
researchers working with Polynesian migrants to New Zealand have
found kin and church-related cooperative and decision-making groups
functioning strongly in urban environments (Boardman, 1969; Hooper,
1961; Metge, 1964; Pitt and Macpherson, 1971; Hooper and Huntsman,
personal communication).

Having established this basic difference in interaction
patterns between traditional Polynesian and industrial European
society, there is the further question of their pedagogical
significance. Are patterns of adaptive problem-solving used in
traditional societies applicable within modern schools? Or more
radically, is there any evidence that in some instances they may be

preferable to present educational methods? If so, in what ways
might these patterns of learning be used in educational institutions
for the benefit of all the children of a multi-cultural society?
Finally, can children socialized to different thinking patterns
and problem-solving strategies at home, for example the white New
Zealand child from a European cultural background, learn to adapt
to new problem-solving techniques more typical in another culture?
Here is the "cultural deficit" problem in reverse.

It is an oversimplification and ethnocentric assumption of
Western man that learning and problem-solving are most effectively
carried out on an individual basis. A related assumption is that
group activities are "fun", and to be kept distinctly separate from
the "work" of education. Consequently, as students progress in
school, more and more learning tasks are performed by individuals,
and pupils are actively discouraged from pooling their knowledge or
solving problems together. Teachers increasingly treat their class-
rooms as random collections of individuals; it is the task of learning
which is of primary importance, and personal relationships among
participants are felt to be secondary or irrelevant. As students
progress toward the national examinations, "Do your own work!" becomes
a prime maxim.

For most of the non-Western world, as we have seen, working alone
has never been considered the most effective pattern. And social
psychologists are beginning to come to similar conclusions. There
is now considerable evidence that for many types of tasks, groups
perform both more efficiently and with greater quality of outcome
than do individuals (Lorge and Solomon, 1958; Lorge, et al., 1958;
Davis, 1969). The combining of individual knowledge on some tasks,

and the leaven of excitement that group interaction can bring to the task are instrumental in generating better or more original solutions to problems (Bouchard, 1972, 1973).

Research on the role of "person-orientation" as opposed to "task-orientation" has become the focus of a considerable body of research (Mann, 1961; Dreyer and Rigler, 1969; Ruble and Nakamura, 1972, 1973: Nakamura and Finck, 1973). Ruble and Nakamura conclude that person-oriented children were "more effective (than task-oriented children) in tasks or situations that involve relevant social cues. Thus it is perhaps inappropriate to refer to one cognitive style as more desirable than the other. Which style (task or social oriented) is more effective may vary with situational factors" (p. 479).

Another group of researchers have been studying the role of social sensitivity in small group performance. These studies indicate that "social-emotional" leaders and "task-oriented" leaders perform different functions within groups and differentially influence the effectiveness of the group on various types of tasks (Bales and Slater, 1955; Bales 1958; Fiedler, 1965; Burke, 1971; Hardy, 1971). While the inter-relationships between task-type, leader-type, and group size and atmosphere are complicated, (Frank and Anderson, 1971), it is at least clear that for most groups some balance between the concern for persons and for task must be struck for effective group functioning and outcome. Techniques for doing this have been developed by some researchers in creative group problem-solving (Gordon, 1961; Prince, 1970).

Finally, there is a body of cross-cultural research which indicates that children from rural, traditional backgrounds are

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typically more cooperative than children from urban, Western

backgrounds, both within and between cultures (Madsen, 1967;

Shapira and Madsen, 1969; Wasik et al., 1969; Madsen and Shapira,

1970; Kagan and Madsen, 1972; Sommerlad and Bellingham, 1972).

An interesting aspect of these studies is that the experimental

reward system was arranged so that competitive behavior was

highly maladaptive. Yet middle-class children from urban, Western

culture backgrounds continued to compete even when it meant lower

rewards. After discovering that competition increased with age

and intelligence in Anglo-American children, two investigators

noted "The highly competitive behavior of the children of increased

age and intellect in the present study...indicates that the competi-

tive motive may become so strong that the assumed cognitive capacity

for reciprocal interaction is overshadowed by a culturally determined,

generalized tendency to compete in conflict-of-interest situations,

even if it is not adaptive to do so in a particular situation."

(Madsen and Connor, 1973:178).

It would appear that Western-oriented educators may have some-

thing of value to learn from less competitive and individualistic,

traditional peoples about effective group problem-solving. Multi-

cultural schools could consequently become settings for sharing

complementary skills, rather than instruments of unidirectional

assimilation. Many Polynesian children, for example, enjoy a high

degree of experience in the cooperative, person-oriented techniques

which make for effective group problem-solving. Unhappily, these

skills are often not recognized, valued, or utilized by European

teachers. Gallimore (as reported in Howard, 1973) on the basis of

systematic observations in Hawaiian classrooms, reports that "working

in groups" is more frequently observed in Hawaiian-American than in

middle-class Caucasian classrooms, but that teachers characterize group work as "disruptive" and punish it.

In one Auckland intermediate school in a predominantly European suburb, we observed a Maori girl, age 12-13 (and one of only 14 Polynesians in the school), take the role of leader in a group requested to mime a play when the usual group leader at her table, a European boy, refused to participate. Without ever seeming to order the others about, she helped the group to choose the play, stimulated discussion as to acting methods, and maintained a lively spirit in the group. This resulted in a production less stilted than many others presented by the class. Yet this girl's social talent and person-orientation were not perceived by her teacher as relevant to learning activities. Rather, although she obviously enjoys the child, the teacher saw her as "the ring leader of most of the _fun_ and _mischief_ in the class." She characterized the child as "happy-go-lucky", "boisterous" and "with a good sense of humor", but her scholastic productions were "not an outstanding effort". This evaluation is in line with the conclusions of Ruble and Nakamura (1973) who found that teachers saw outer-directed children as lower achievers in school, lower in self-confidence, wanting less to do things by themselves, more help-seeking, and less persistent - all devalued classroom traits.

By contrast, Polynesian teachers often use these same group skills to pedagogical advantage. Howard (1970), for example, found native teachers in Rotuma using groups quite frequently in a variety of tasks and with a variety of combinations of individuals: on Rotuma one teacher commented:

> The best way to get the children to work is to give them group projects...With arithmetic I have each group give

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answers to the problems. They have to work it out together and reach a single decision. After doing this for several days I hold a competition between the groups, adding up the sums of correct answers for each group. During the competition each child works out the answers individually and the correct answers are added up to get the group score. I find great improvement in individual skills by using this technique. (55).

Teachers on this island also switched the composition of competing sports groups frequently so as to avoid an unpleasant degree of competitiveness from arising between individual members of opposing teams (Howard 1970:52). We are discovering in our rural school observations that flexible grouping is used as well by teachers experienced with Maori children.

In conclusion, it seems clear that the introduction of more group-oriented learning situations in the classroom would provide Polynesian children with an opportunity to use their considerable social talents to the intellectual advantage of all students, both Polynesian and Pakeha. Obviously children who already have experience in group situations and prefer them will be crucial in making group problem-solving successful. Davis (1969) found that while groups outperformed individuals in efficiency and quality of results on two types of tasks, the highest number of correct solutions occurred in groups made up of persons who preferred group work to working alone. Even those groups made up of individuals who had preferred solitary work, however, did better than persons working alone and, as a whole, persons having worked in a group (whether or not they preferred group work) were more satisfied with the tasks. Davis also found that group members who preferred group work seemed to exploit the possibilities of problems that permitted division of labor and the exchange of information through social interaction more thoroughly than did groups of individuals who preferred to work alone. And there is evidence that groups

composed heterogeneously (with respect to sex, ethnic group, or attitudinal characteristics) perform as well or better than groups that are homogenous with respect to these characteristics (Hoffman, 1959; Hoffman and Maier, 1961; Fiedler, 1966). Thus it would seem likely that mixed ethnic groups of Polynesian and European children, with presumed differential preferences and talents for group work, would also outperform the same individuals if they were to work alone. Furthermore, it has been found that those individuals who prefer group work perform least well when forced to work alone (Davis, 1969). This indicates that by insisting on a predominance of individual work, not only are we preventing many Polynesian children from using their talents in group problem solving, but we are increasing their academic difficulties as well.

N O T E S

1. We wish to acknowledge support from the Royal Society of New Zealand, which is making possible our current research on adaptive strategies in urban migration in the South Pacific.

2. We chose this more open-ended method in contrast to earlier studies of naturalistic interaction in the home (Graves, 1974; Imamura, 1965; Kamii and Radin, 1967; Minton, Kagan & Levine, 1971; Steward & Steward, 1973) or the school (Flanders, 1967; Hunter, 1969; Jose & Cody, 1971; McGaw, Wardrop & Bunda, 1972; Medley & Mitzel, 1963) which either employed preset observation categories or structured the nature of the action recorded.

3. The representativeness of these categories and their implications have been arrived at through discussions among observers drawn from both minority and majority group cultures. An accurate picture of the cultural system within which learning and thinking take place, and an understanding of the function of learning styles, cannot be gained alone by observers who come from outside the culture. In our research, Polynesian and European observers work closely so that their varying perspectives may be compared. A Polynesian may see things in a European situation that are taken for granted by a member of Pakeha culture, and the same is true for the European in a Polynesian setting. On the other hand, the cultural "insider" can also instruct the "outsider" on the particular meaning of acts which the non-member of the culture could distort or ignore. In this regard we are particularly grateful for the help of Meremere Penfold and Tilly Reedy in inderstanding the meaning of inclusive behavior within Maori culture, and also to the many students who helped collect and discuss the observations: S. Arbuckle, V. Butler, F. Darragh, J. Fowler, R. Hughes, M. McPherson, R. McRae, S. Mulder, J. Paton, J. Pither, S. Steven, S. Thomson, R. Ward, F. Wilson, S. Wood and others.

4. There are three major forms of preschool presently available in New Zealand: kindergartens (both private and state-run), play-centres, and family pre-schools. These types are discussed in detail in McDonald (1973). To date we have found no significant differences in inclusive versus exclusive behavior among these three types of preschool organization.

5. This Play Centre was studied intensively by a group of students under our direction in 1972 and the results of the research are in a master's thesis by Edite Denée (1973). Additional observations were made at the Play Centre in 1973-74 after a change in locale. Polynesian and European Play Centres were compared with it to ascertain its degree of representativeness.

6. These do not include the observations made by Denée and her team in their intensive study of a single integrated play centre, described earlier.

REFERENCES

AUSUBEL, D.
1967   The effects of cultural deprivation on learning patterns.
            In E.T. Keach (Ed.), Education and social crisis. New York:
            John Wiley and Sons, Inc.

BALES, R.F., & SLATER, P.E.
1955   Role differentiation in small decision-making groups. In
            T. Parsons & R.F. Bales (Eds.), Family, socialization and
            interaction process. Glencoe: Free Press.

BARKER, R.G.
1968.   Ecological psychology: concepts and methods for studying
            the environment of human behavior. Stanford: Stanford
            University Press.

BOARDMAN, D.W.
1969   From atoll to city: the migration of Tokelau Islanders to
            New Zealand. In J.R. McCreary (Ed.), Urbanization and
            resettlement in the South Pacific. Wellington: University
            of Victoria.

BOGGS, STEPHEN T.
1973   The meaning of questions and narratives to Hawaiian children.
            In C. Cazden, D. Hymes, V. John (Eds.), The functions of
            language in the classroom. New York: Columbia Teachers
            College Press.

BOUCHARD, T.J. JR.
1972   A comparison of two group brainstorming procedures.
            Journal of Applied Psychology, 56: 418-421.

BURKE, P.J.
1971   Task and social-emotional leadership role performance.
            Sociometry. 34: 22-40.

COLE, M.
1973.   Toward an experimental anthropology of thinking. In S.T.
            Kimball & J.H. Burnett (Eds.), Symposium on learning and
            culture, Proceedings of 1972 Annual Spring Meeting of the
            American Ethnological Society. Seattle: University of
            Washington Press.

COLE, M., GAY, J., GLICK, J.A., & SHARP, D.W.
1971   The cultural context of learning and thinking: an
            exploration in experimental anthropology. New York: Basic
            Books.

CHILMAN, C.S.
1966   Growing up poor: an overview and analysis of child-rearing
            and family-life patterns associated with poverty. Washington
            D.C.: U.S. Department of Health, Education and Welfare.

DAVIS, H.
1969   Individual-group problem solving, subject preference and
            problem type. Journal of Personality and Social Psychology,
            13: 362-374.

DENÉE, EDITE
1973 Mother-child interaction at an ethnically mixed Auckland play centre – an exploratory study. Unpublished master's thesis, University of Auckland.

DREYER, A.S. and RIGLER, D.
1969 Cognitive performance in Montessori and nursery school children. *Journal of Educational Research*, 62: 411-416.

FIEDLER, F.E.
1965 The contingency model: a theory of leadership effectiveness. In H. Proshansky & B. Seidenberg (Eds.), *Basic studies in social psychology*. New York: Holt, Rinehart and Winston.

FIEDLER, F.E.
1966 The effect of leadership and cultural heterogeneity on group performance: a test of the contingency model. *Journal of Experimental Social Psychology*, 2: 237-264.

FIRTH, R.
1936 *We the Tikopia*. New York: Amercian Book Co.

FLANDERS, N.A.
1967 The problems of observer training and reliability. In E. Amidon, & J. Hough (Eds.) *Interaction analysis: theory, research, and application*. Massachusetts: Addison-Wesley.

FRANK, F. & ANDERSON, L.R.
1971 Effects of task and group size upon group productivity and member satisfaction. *Sociometry*, 34: 135-149.

GALLIMORE, R. & HOWARD, A. (EDS.)
1969 *Studies in a Hawaiian community: Na makamaka o Nanakuli.* Honolulu: Pacific Anthropological Records, No.1, Dept. of Anthropology, Bernice P. Bishop Museum.

GALLIMORE, R., MACDONALD, W.S., & BOGGS, S.
1969 Education. In R. Gallimore and A. Howard (Eds.), *Studies in a Hawaiian community: Na makamaka o Nanakuli.* Honolulu: Bernice P. Bishop Museum.

GLASER, B.G. and STRAUSS, A.L.
1967 *The discovery of grounded theory: strategies for qualitative research.* Chicago: Aldine Pub. Co.

GORDON, W.J.J.
1961 *Synectics: the development of creative capacity.* New York: Harper and Row.

GRAVES, N.B.
1974 *City, country, and child rearing: cross-national observations of mother-child interaction.* Westport, Connecticut: Redgrave (in press).

GRAVES, N.B. & GRAVES, T.D.
1974a Adaptive strategies in urban migration. In B. Siegel (Ed.), *Annual Review of Anthropology*. Palo Alto: Annual Reviews Inc.

GRAVES, T.D. & GRAVES, N.B.
   1974b   Social-psychological factors in urban migration.   In
             Proceedings: Conference on Migration and Related Social
             and Health Problems in New Zealand and the Pacific.
             Wellington: Wellington Post-graduate Medical Society.

HALL, E.T.

             The silent language.   New York: Doubleday & Co.

HARDY, R.C.
   1971   Effect of leadership style on the performance of small
             classroom groups: a test of the contingency model.
             Journal of Personality and Social Psychology, 19: 367-374.

HELLMUTH, J. (ED.)
   1970   Disadvantaged child, Vol. 3: compensatory education – a
             national debate.   New York: Brunner/Mazel Inc.

HOCART, A.M.
   1929   Lau Islands, Fiji.   Bulletin 62.   Honololu: Bernice P.
             Bishop Museum.

HOFFMAN, L.R.
   1959   Homogeneity of member personality and its effect on group
             problem solving. Journal of Abnormal and Social Psychology,
             58: 27-32.

HOFFMAN, L.R. and MAIER, M.R.F.
   1961   Quality and acceptance of problem solutions by members of
             homogeneous groups. Journal of Abnormal and Social
             Psychology, 62: 401-407.

HOOPER, A.
   1961a   The immigration of Cook Islanders to New Zealand. Journal
             of the Polynesian Society, 70: 1-7.

HOOPER, A.
   1961b   Cook Islanders in Auckland. Journal of the Polynesian
             Society, 70: 9-55.

HOWARD, A.
   1970   Learning to be a Rotuman; enculturation in the South
             Pacific. New York: Teachers College Press.

HOWARD, A.
   1973   Education in 'Aina Pumehana: the Hawaiian-American student
             as hero. In S.T. Kimball & J.H. Burnett (Eds.), Symposium
             on Learning and Culture, Proceedings of 1972 Annual Spring
             Meeting of the American Ethnological Society. Seattle:
             University of Washington Press.

HUNT, J.McV.
   1969   The challenge of incompetence and poverty: papers on the
             role of early education. Urbana: University of Illinois
             Press.

HUNTER, E.
   1969   Talking in First Grade Classrooms. Urban Review,
             (October) pp 39-42.

IMAMURA, S.
1965   Mother and the Blind Child: the influence of child-rearing
          practices on the behavior of preschool blind children. New
          York: American Foundation for the Blind, Research Series
          No.4.

IRELAN, L.M. (Ed.)
          Low Income Life Styles. Washington, D.C.: Division of
          Research, Welfare Administration, U.S. Dept. of Health,
          Education, and Welfare, Welfare Administration Publication
          No.14.

JESSOR, R. & RICHARDSON, S.
1968   Psychosocial deprivation and personality development.
          In Perspectives on Human Deprivation: biological,
          psychological, and socialogical, Chapter 1, Washington,
          D.C.: U.S. Dept. of Health, Education & Welfare, PHS,
          NIH, NICHD.

JOSE, J. & CODY, J.J.
1971   Teacher-pupil interaction as it relates to attempted
          changes in teacher expectancy of academic ability and
          achievement. American Educational Research Journal,
          8: 39-49.

KAGAN, S. & MADSEN, M.C.
1972   Experimental analyses of cooperation and competition
          of Anglo-American and Mexican children. Developmental
          Psychology, 6: 49-59.

KAMII, C.K. & RADIN, N.L.
1967   Class differences in the socialization practices of
          Negro mothers. Journal of Marriage and the Family,
          29: 302-310.

LARSON, C.F. and GRATZ, R.D.
1970   Problem-solving discussion training and T-group training:
          an experimental comparison. The Speech Teacher, 19: 54-57.

LEACOCK, E.
1971   At play in African villages. Natural History, 80: 60-66.

LEVY, R.I.
1969   Child management structure in Tahitian families. Journal
          of the Polynesian Society, 78:35-43.

LEWIS, O.
1966   The culture of poverty. Sci. American, 215: 19-25.

LEWIS, O.
1966   La Vida: a Puerto Rican Family in the culture of poverty,
          San Juan & New York. N.Y.: Random House.

LORGE, I., FOX, D., DAVITZ, J., & BRENNER, M.A.
1958   A survey of studies contrasting the quality of group
          performance and individual performance: 1920-1957.
          Psychological Bulletin, 55: 337-372.

LORGE, I. & SOLOMON, H.
  1958   Group and individual performance in problem solving
            related to previous exposure to problem, level of
            aspiration, and group size. New York: Columbia Univer-
            sity Bureau of Applied Social Research.

MADSEN, M.C.
  1967   Cooperative & competitive motivation of children in three
            Mexican subcultures. Psychological Reports, 20: 1307-1320.

MADSEN, M.C. & CONNOR, C.
  1973   Cooperative and competitive behavior of retarded and non-
            retarded children at two ages. Child Development,
            44: 175-178.

MADSEN, M.C. & SHAPIRA, A.
  1970   Cooperative & competitive behavior of urban Afro-American,
            Anglo-American, and Mexican village children. Developmental
            Psychology, 3: 16-20.

MANN, R.D.
  1961   Dimensions of individual performance in small groups under
            task & social-emotional conditions. Journal of Abnormal &
            Social Psychology, 62: 674-682.

McDONALD, G.
  1973   Maori mothers and preschool education. Wellington: New
            Zealand Council for Educational Research.

McGAW, B., WARDROP, J.L., & BUNDA, M.A.
  1972   Classroom observation schemes: Where are the errors?
            American Educational Research Journal, 9: 13-27.

MEAD, M.
  1928   Coming of age in Samoa: a psychological study of primitive
            youth for Western Civilization. New York: Morrow.

MEDLEY, D.M. and MITZEL, H.E.
  1963   Measuring classroom behavior by systematic observation.
            In N.L. Gage (Ed.), Handbook of research on teaching.
            Chicago: Rand McNally.

METGE, J.
  1964   A new Maori migration: rural and urban relations in
            Northern New Zealand. University of London: The Athlone
            Press.

MINTON, C., KAGAN, J., LEVINE, J.A.
  1971   Maternal control and obedience in the two-year old.
            Child Development, 42: 1873-1894.

MOLES, O.C.
  1965   Child training among low-income families: an empirical
            study. Welfare in Review, 3: 1-9.

NAKAMURA, C.Y. and FINCK, D.
  1973   Effect of social or task orientation and evaluative or
            nonevaluative situations on performance. Child
            Development, 44: 83-93.

PAVENSTEDT, E.
    1965   A comparison of the child-rearing environment of upper-lower
                and very lower-lower families. _American Journal of Ortho-_
                psychiatry, 35: 89-98.

PITT, D. and MACPHERSON, C.
    1971   Voluntary separation and ethnic participation - Samoan migrants
                in urban New Zealand. Auckland, New Zealand: Nuffield Founda-
                tion Ethnic Relations Project, Preliminary Report No.1 (Nov.).

PRINCE, G.M.
    1970   _The practice of creativity; a manual for dynamic group problem_
                solving. New York: Harper and Row.

RIESMAN, D.
    1950   _The lonely crowd._ New Haven: Yale University Press.

RITCHIE, J.
    1957   _Childhood in Rakau - the first five years._ Wellington: Victoria
                University College Publications in Psychology No.10.

RITCHIE, J.E.
    1972   New families: new communities. In G. Vaughan (Ed.), _Racial_
                issues in New Zealand. Auckland. Akarana Press.

RUBIE, D. and NAKAMURA, C.Y.
    1972   Task versus social orientation in young children and their
                attention to relevant social cues. _Child Development_,
                43: 471-480.

RUBIE, D. and NAKAMURA, C.Y.
    1973   Outer directedness as a problem-solving approach in relation
                to developmental level and selected task variables. _Child_
                Development, 44: 519-528.

SALMOND, A.
    1974   _Hui: a study of Maori gatherings._ Wellington: Reeds.

SHAPIRA, A. and MADSEN, M.C.
    1969   Cooperative and competitive behavior of Kibbutz and urban
                children in Israel. _Child Development_, 40: 609-617.

SOMMERLAD, E.A. & BELLINGHAM, W.P.
    1972   Cooperation-competition: A Comparison of Australian European
                and Aboriginal school children. _Journal of Cross-cultural_
                Psychology, 3: 149-157.

STEWARD, M. & STEWARD, D.
    1973   The observation of Anglo,Mexican, and Chinese-American mothers
                teaching their young sons. _Child Development_, 44: 329-337.

WATSON, O.M. & GRAVES, T.D.
    1966   Quantitative research in proxemic behavior. _American Anthro-_
                pologist, 68: 971-978. (Reprinted in M. Argyle (Ed.), 1973,
                Readings in social interaction. New York: Atherton Press).

WARD, W.C.
    1969   Creativity and environmental cues in nursery school children.
                Developmental Psychology, 1: 543-547.