ABSTRACT
              The purpose of this study was to frame the outlines
of an interpersonal theory derived from exploratory research among
adolescent reading failures. The theory postulates that adolescent
reading failure syndrome results from and is maintained by conscious
elements of choice manifested in the adolescent's perception
preferences. The affective readiness for failure in reading tasks is,
therefore, a deeply seated psychological generator of the reading
failure disturbance showing extreme resistance to modification
through traditional remedial reading school practices, but worthy of
as vigorous an exploration as has been undertaken into the more
familiar cognitive parameters of successful reading performance. The
subjects, 180 seventh, eighth, ninth, and tenth grade Black male
students, were evaluated through personal interviews, questionnaires,
and observation over an 80-week period by the researcher. Results
indicate that adolescent reading failure is accompanied by perception
preferences for retreat into one of three views of the world
depending upon the interpersonal and intrapersonal pressures of the
moment. Such preferences are characterized by: (1) unsocialized
aggression, reflecting overt and covert hostile disobedience,
quarrelsomeness, physical and verbal aggressiveness, vengefulness,
and destructiveness; (2) social approval anxiety, reflecting
continuous anxiety, unrealistic fears, immaturity,
self-consciousness, inhibition and frustration; or (3) unsocialized
withdrawal, reflecting seclusiveness, detachment, sensitivity,
shyness, and a flagging desire to form close personal relationships.
(Author/HMV)

AN AFFECTIVE-PERCEPTION PSYCHOLOGY

OF ADOLESCENT READING FAILURE

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PREFACE

Nationwide dropout statistics reveal that, as
Jennings reported, while most non-readers do quit their
secondary school education before graduation, some do not
and a majority of poor readers who do drop out of school
actually have the mental capacity to read above the sixth
grade level, yet almost none of these ever achieve this.[1]

Regardless of the amount of social adjustment,
sympathetic counseling and understanding provided these
youngsters, the school fails to meet its educative objec-
tives when there is failure to learn to read and failure to
read to learn.

Many of these youngsters who enter secondary school
with serious reading problems have long personal history and
experience of failure in reading tasks. Jennings refers to
these youngsters as having been "written-off" years before
their secondary school years have begun.[2] These "write-
offs" will be referred to in this study as "non-readers"
who possess both potential for independent reading ability

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[1]F. G. Jennings, This is Reading (New York: Bureau
of Publications, Teacher's College, Columbia University,
1965), p. 172.

[2]Ibid., pp. 173-174.

(as evidenced in minimal reading skills which they possess),
and the potential for a life of dependence upon those who,
with generosity, may both read to and for them.

Chapter 1

INTRODUCTION

Modern-day reading specialists in the secondary
schools are becoming polarized along two broad fronts: the
behavioristic and the humanistic. The forces which are at
work behind this divergence are partially imposed by the
institution of American secondary education, and partially
imposed by the nature of the secondary teacher and student
themselves. The bipolarity which is characteristic of
secondary reading instruction today is a mute reflection of
a far more widespread disparity in twentieth-century life.
Burton observed this phenomenon and said that <u>Scientific</u>
<u>Man</u> in producing the atomic bomb, is now, under attack as
blindly mechanistic, as failing to pose the proper life-
questions, as indifferent to man's inner self, and generally
failing to provide for a satisfying life. <u>Humanistic Man</u>
focuses on life-questions with ever increasing subjectivity,
with a persuasive case for the uniqueness of all persons,
and with pursuit of answers to the "meaning" of the individ-
ual life.[1]

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[1]A. Burton, <u>Modern Humanistic Psychotherapy</u> (San
Francisco: Jossey-Bass, Inc., Publishers, 1968), p. xi.

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The traditional irrelevance of secondary school curricula (largely composed of reading activities) for students who either do not read at all, or who are so arrested in reading skill development as to be functionally illiterate is a universal shadow of despair and anxiety among secondary teachers in all content areas. Behaviorists and humanists have attempted to establish a sufficient base of research for the formulation of an educational theory enabling the elimination of the causes for "non-reading" adolescents. However, many of those who have suspended judgement concerning the determinant and ultimate causes of the condition have discovered sufficient evidence in the actual treatment of secondary "non-readers" to formulate a position midway between extreme behavioristic and humanistic poles, an interpersonal theory. One by one, those traditional excuses of schoolmen for failures in reading achievement focusing on alleged personal inadequacy for reading tasks, e.g., economic status, intelligence, native language, physiological impairments, family mobility, and culture have fallen by the weight of the reading teacher's personal experience and research showing the positive effect of reconstructive interpersonal programs for secondary "non-readers." This experience and research milieu (coming largely from reading practitioners themselves) has established that much can be done to change the student's "non-reading" predisposition if two conditions prevail during treatment: the teacher's

relative absence of fear of the student's personality, and a
deep understanding of the human condition of which the student
and the teacher are both parts and products. These two
conditions precedent focus on the construct: interpersonal
perception is a function of intrapersonal perception. That
is, how one perceives his person-to-person (interpersonal)
relationships is significantly determined by the character-
istics of one's (intrapersonal) perceptions of oneself. For
purposes of this investigation exploration will be focused
on a limited area of inquiry restricted to the "non-reader's"
perceptions of himself as the recipient or producer of two
forms of pressure: personality and environmental. Although
there are unlimited possibilities for inquiry into the
"non-reader's" personality structure, it is believed that
the most relevant data is that which sheds light on the
conscious perception of the "non-reader" concerning forces
both within himself and those outside him producing anxiety
and discomfort.

Possessing such knowledge about the "non-reader's"
perceptions enables the reading teacher to understand more
accurately which of these perceptions may have influenced or
facilitated development of a "non-reading" disposition and
which may be susceptible to modification in reconstructive
efforts toward reading success.

PURPOSE OF THE STUDY

The purpose of this study was to frame the outline of
a theory of dynamic individual psychology and then to indicate
areas of application for the interdisciplinary oriented read-
ing practitioner.

Among those investigations which are of paramount
importance to practitioners faced with understanding reading-
failure syndrome among adolescents is analysis of the deviant
case. This approach has hitherto been greatly overlooked and
underworked by reading researchers. Deviant case analysis
offers notable advantages over the traditional and classical
mode embodied in analysis of cases trending toward the central
grouping and centering on the mean. First, deviant case
analysis, is advantageous by permitting the exploitation of
the entire parameter of theoretical notions of affective and
cognitive behaviors, and second, deviant case analysis sup-
plies the researcher with gross behavioral features in a
readily identifiable and categorical form for the purpose of
further analytical and theoretical permutations.

The deviant case study modality provides a useful
means of bridging the gulf of misunderstanding and suspicion
which exists between, on the one hand, reading technology,
and on the other, psycho-therapeutic analysis. The use of
the deviant case study accomplishes this through providing
the gross features for study and rehabilitation through the
use of a broad understanding that adolescent reading failure

etiology is preceded by interactions of conscious and non-conscious elements of choice. And it makes possible a facilitation of understanding selected features of intrapersonal and interpersonal perception preferences which have been previously considered indistinguishably obscure, remote and unmeasureable dimensions, or as generally irrelevant to the understanding of reading failure.

The following constructs should be thought of by the reader as assumptions which underlie the position presented:

1. Perceptions are cathected (invested and being invested with psychic energy).

2. Perceptions in this sense include the reader himself, in whole or in part, and the things which he perceives outside himself, including interpersonal transactions.

3. Values associated with the cathectic perception range from hyper- to hypo-intensity.

4. All perceptions are cognitively reducible to a limited set of relationships which are symbolized by the reader and stored in long-term memory.

The range of complicated personality characteristics which develop in accordance with these operating protocols during the course of individual maturation form the contextual environment of subsequent adolescent reading failure syndrome.

Though the validity of these constructs may be argued, there is very little disagreement that a sufficiently radical exploration of this syndrome has been clearly lacking

in the relatively unpromulgated genre of reading failure

syndrome among deviant case adolescents.

This is not intended to infer that all reading-

failure syndrome occurring in adolescents may not have signi-

ficant primary components at a biochemical or physiological

level. The point is that the evidence of primary disturbance

at this level is meager as a determining factor in the non-

reading behavior, and incomplete, at best. The present state

of research-based evidence in this field requires, at the very

least, substantive operational explanations of the "how's"

and the "why's" of this disturbance, not merely that the

disturbance exists. Preoccupation with proofs that the

disturbance exists, indeed, has led to an indefensible com-

placency on the part of those who find experimentally-based

descriptions of the cognitive symptoms of reading difficulty

more "manageable." It should be pointed out that such

researchers have great difficulty assembling stable and

replicable evidence regarding so-called cognitive dimensions

and attributes and that corroborative investigations in the

literature, are simply not available. Even the psychological

literature relating to the phenomenon of reading-failure

syndrome in adolescents provide only disparate observations

in various settings which are only partially corroborated,

and are often disconfirmed in significant respects when

practitioners attempt to apply the findings and conclusions

in the field. Therefore, reports of psychological malfunctions

as observed in experimentally controlled situations, even though carefully obtained, are difficult to coordinate into a consistent picture of the attributes in a manner which leads to development of an integrated model of the mechanisms of mediation in the perceptual process which give rise to and which nurture the continuance of the syndrome.

In the void which exists and in the absence of a viable theoretical model, the reading researcher tends to be consistently preoccupied with inquiries into the derivative attributes of the reading process as reflected in those cases near the central trend of the typical distribution of the typical classroom. This research milieu has, therefore, produced insufficient research energy in the study of other more deeply seated psychological generators of the disturbance which show extreme resistance to modification and alteration through the use of traditional school practice and reading instruction but which are, nonetheless, worthy of increasing awareness and vigorous exploration.

The expectation was that perception preference patterns would emerge in the form of relationships among the following five perception variables, as measured in one group of "non-reading" adolescents:

1. Machiavellianism: The degree of belief in the manipulability of objects and others[1] (Appendix C, page 132).

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[1] R. Christie and F. Geis, Studies in Machiavellianism (New York: Academic Press, 1970), pp. 1-107.

2. <u>School Sentiment</u>: The degree of favorable attitude toward school in general and toward several dimensions of school[1] (Appendix G, page 158).

3. <u>Personality Needs Perception</u>: The degree of perception as to personality needs in relation to objects and others[2] (Appendix D, page 135).

4. <u>Environmental Force Perception</u>: The degree of perception as to the forces from the environment directed upon the person[3] (Appendix E, page 143).

5. <u>Affective Readiness Stages</u>: The degree of emotional development and sophistication observed in subject's interaction with objects and others[4] (Appendix I, page 171).

LIMITATIONS OF THE STUDY

The investigation was limited in the following ways. First the instruments were administered in the same order[5] to all subjects, rendering a serial effect possible. Second,

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[1]P. Popham, <u>Attitudes Toward School</u> (Los Angeles: Instructional Objectives Exchange, 1972), pp. 45-55.

[2]G. Stern, <u>People in Context: Measuring Person-Environment Congruence in Education and Industry</u> (New York: John Wiley and Sons, 1970), pp. 1-313.

[3]Ibid.

[4]H. Hobbs, "Sequential Interrelated Variables of Affective Teaching in Secondary Reading" (unpublished graduate study, University of California, Santa Cruz, 1972), pp. 1-104.

[5]Machiavellianism--School Sentiment--Personality Perception--Environmental Perception--Affective Development.

the investigation was limited to a single school district, the characteristics of which are described in Chapter 3. A third limitation arising from the sampling procedures within the school district is discussed in the same chapter.

As the thrust of this investigation was to establish the dimensions of personality as measured by various self-reporting test instruments, a further limitation was theoretically possible because responses from the environmental context of perception may have been influenced by the personality characteristics of the "non-reading" subject and may therefore actually have been projections rather than objective descriptions.

Chapter 2

REVIEW OF RELATED RESEARCH

CONCEPTS OF THE EDUCATIONAL PROCESS

Throughout the history of American reading instruction
many persons involved in its various aspects have been search-
ing for better ways to conduct its process. From the earliest
days of hornbooks, blue-back spellers, and hickory rods the
dialogue among educators has moved to and fro between the
mandates of the "Three R's" and the suppleness of "discovery
learning" as alternative means to achieve a more durable and
informed reading citizen. Generally, four conceptions of the
educational process have emerged from the literature of this
period: fundamentalism, developmentalism, holism, and
behaviorism.

Fundamentalism

At around the turn of the century, "fundamentalism"
had gained widespread attention advocating that the process
of education consisted of learning certain basic subjects
which had been designed to develop "faculties of the mind"
and to exercise certain intellectual processes.[1] Mathematics

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[1]B. Wolman, Contemporary Theories and Systems in
Psychology (New York: Harper and Row, 1960), pp. 5-6.

was important to learn because its discipline aided reasoning;
knowledge of Latin aided in the problem solving abilities of
the student; and study of great literature assisted in the
development of the student's asthetic appreciation. The
researcher should add that this approach worked well for
certain homogeneous groupings of persons who were able to
devote a large quantity of energy and leisure time to study
and contemplation. However, very few citizens were fortunate
enough to experience these delights in their lifetimes, and
the "self-made" man pointed out that his reasoning and
problem-solving skills had been developed by other more
relevant means in the world of work as had even the farmer
and the industrialist who were not in need of well-developed
asthetic appreciation skills in order to survive in their
adventures.

Developmentalism

A vast tide of "developmentalism" swept across the
nation in order to counter critics of the public school
program. Advocates for this view of education readily
acknowledged that reasoning, problem-solving, and asthetic
values were important aspects in the process of education
but insisted that there were other and better ways of achiev-
ing these outcomes. These included concepts of "mental
abilities," "developmental stages," "capacity," and "readi-
ness." As a result the process of education was conceived

of as one which would facilitate and expand, to an individual's fullest capacity, one's inherent style of acquiring information and knowledge.[1] But, some children still did not learn to read well, and some failed to learn to read at all. For an answer to this dilemma standardized tests were administered throughout the nation. The evaluation of the problem led to sources of the difficulty "diagnosed" as internal inadequacy including deficiencies in "mental ability," "capacity to learn," and "aptitude." Special programs were immediately implemented for these "non-reading" failures in the public school system. Psychiatrists used such terms as "anxiety reduction," "repression," and "defense mechanism" to explain their hapless failure in learning to read. Behaviorists spoke of the importance of "environment" and the dynamics of "reward" and "punishment." Very little attention was given to the developmentalist approach itself, which required, as did its forerunner, the fundamentalist approach, that students conform to a standard package of performance which was predetermined by teachers who may have, indeed, had little knowledge of the adequacy or relevance of such objectives to the individual learner.

Holism

Beginning in the mid-forties a new emphasis appeared in order to rectify the shortcomings of both the fundamentalist

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[1]W. James, Talks to Teachers (New York: W. W. Norton and Co., Inc., 1958), pp. 102-108.

and developmentalist regimes. This was the "holistic" view which placed primary attention on the "whole child."[1] Thus the purpose of education became the molding of the child's personality, of nurturing his skills of socialization, and generally strengthening his psychological well-being in addition to fostering development of the child's cognitive abilities. The researcher concluded that the intended outcome was not only a citizen who read well and was thereby well informed but a citizen who was "well-rounded,' "creative," and "fully functioning."

The effects of two world conflicts, a fluctuating national economy, and the fast pace of American life led to further changes in the course or direction of reading instruction. As the concern for individuality and mental-health with emphasis on reasoning, developmental stages, and natural aptitudes had seemingly failed to produce the desired outcomes in the desired period of time, new concerns became overriding. Allen estimated that one out of every four students, and 10,000,000 children and adults with severe reading disability existed in the United States by 1969.[2]

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[1]Wolman, pp. 184-189.

[2]J. Allen, "The Right to Read--Target for the 70's," Journal of Reading, XIII (November, 1969), 95-101.

Behaviorism

In the late 1950's great emphasis had begun to develop toward a view of education oriented around behaviorist models of stimulus-response as an explanation for all learning behavior from lower-order animals to man and as a model upon which better instruction should be based. This approach assumed the form of this hypothesis: How people behave is a direct result of the forces externally exerted upon them. In the researcher's view, such a perspective has progressively harmful effects upon students, schools, family and society, individual perceptions not being subject to direct manipulation. The ultimate control and direction of behavior then, lies within the personality organization of the behaver himself, and not superficially in the external forces which are exerted upon him.

TOWARD AN INTERPERSONAL THEORY

Like electricity, reading exists; it can be observed and also experienced; reading teachers may even believe that they can teach young children to read; reading teachers may believe they measure competence in reading; but are they really talking about reading behaviors, of which there are many?[1] Perhaps all reading behaviors are determined by perceptions of

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[1] H. Robinson, "Significant Unsolved Problems in Reading," Journal of Reading, XIV (November, 1970), 79.

personal needs and external forces. Viewed in this way,
behavior may be thought of as a production of forces "inside"
the person and forces "outside" the person. By "inside"
forces we mean the needs, wants, anxieties, interests, and
feelings of guilt among those which could be mentioned.
"Outside" forces are thought of as requirements of school
and society, rewards, dangers, threats, and the expectations
of other persons. Lindgren theorized that to some extent
"internal" forces are the "mirror images of external ones."[1]

In 1956 a group of university examiners and Benjamin
Bloom published a scheme for classifying learning behavior
according to certain kinds of learning outcomes which these
writers intended would focus attention on the relative ease
with which school programs could be made accountable by
objective evaluation. These learning behaviors were called
the cognitive domain and were arbitrarily limited to six
levels of behavior: knowledge, comprehension, application,
analysis, synthesis, and evaluation.[2] Not until 1964, was
there an extension of the classification which included the
affective domain and its five types of behavior: receiving,
responding, valuing, organization, characterization by a

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[1]H. C. Lindgren, Educational Psychology in the
Classroom (New York: John Wiley and Sons, Inc., 1957),
pp. 21-22.

[2]B. Bloom, et al., The Taxonomy of Educational
Objectives, Handbook I: The Cognitive Domain (New York:
David McKay, 1956), pp. 1-196.

value.[1] With these two classification schemes bringing
widespread attention to systematic description of learning
outcomes a third classification soon appeared, the psycho-
motor domain in which behaviors were classified under five
major areas: perception, set, guided response, mechanism,
complex overt response.[2] For the first time, then, learning
behavior had been sharply and distinctly separated into
logically identifiable subject matter and "departmentalized"
in much the same fashion as has been the case with content
area subjects in the school curriculum.

Briefly, the subject matter of the cognitive domain
was to deal with intellectual abilities such as analyzing a
sentence into its component parts, or memorization abilities
with such abstractions as phonic generalizations or spelling
rules and their applications in the reading and writing behav-
iors learned in the classroom. The proper subject matter of
the affective domain was thought to be development of attitudes,
values, and emotional states promoting student motivation
and interest in the preservation of such ideals as democratic
processes of government. The model subject matter of the
psychomotor domain was described as behavior which was
largely concerned with physical skills such as learning to

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[1]D. Kratwohl, The Taxonomy of Educational Objectives,
Handbook II: The Affective Domain (New York: David McKay,
1964), pp. 50-75.

[2]E. Simpson, The Classification of Educational Objec-
tives: Psycho-Motor Domain (Urbana: Research Proj. OE 5-85-
104, 1966), pp. 10-39.

use a typewriter, drive an automobile, or to swim the breast-
stroke.

Popham advanced the original intent of these classi-
fications still further in 1972 when he suggested to educa-
tional evaluators that this collection of behaviors
encompassed all the learning categories necessary for them
to be able to determine and detect omissions and overemphases
of reading and other educational programs of the schools.[1]

The implications of this evaluation hierarchy have
spread into every public and private educational program
which receives federal support of any kind. Federal support
for educational programs has increased phenomenally during
the past fifteen years and has become a multimillion dollar
"business" funding basic research, development, and demon-
stration projects ranging in size from less than a thousand
to over a million dollars. The Office of Education has made
it mandatory that each project within which federal monies
are expended be conducted as economically as possible; thus
all projects need to be managed in an efficient and business-
like manner.[2] The taxonomies of the cognitive, affective,
and psychomotor domains provided a means which appeared

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[1]W. James Popham, An Evaluation Guidebook: A Set
of Practical Guidelines for the Educational Evaluator (Los
Angeles: Instructional Objectives Exchange, 1972), p. 22.

[2]D. L. Cook, Program Evaluation and Review Technique
(PERT) Applications in Education (U.S. Department of Health,
Education, and Welfare, Office of Education: OE-12024,
Monograph No. 17, 1966), p. iii.

"efficient and businesslike" for evaluation of federally
sponsored and supported programs in education and industry.
This hierarchy has indeed become the predominant criterion
for evaluation of program effectiveness used not only by
federal evaluators, but by their counterparts at the state
level. School districts, building principals, and publishers
of standardized achievement tests have fallen into line, as
well. The "solution" to the present problems of running an
"efficient and businesslike" program has ignored the question,
"Where is the learner in this process?" Behavioral theorists,
such as Skinner, reply, "What we do and hence however we
perceive it, the fact remains that it is the environment
which acts upon the perceiving person, not the perceiving
person who acts upon the environment."[1] The frailty of such
a view of learning behavior has not, however, prevented its
current vogue in reading education where reading specialists,
school psychologists, teachers at both elementary, and
secondary schools, parents, and students have found pre-
occupation with cognition inadequate. It can be seen,
therefore, that Popham's charge concerning the importance
of detection of omissions and overemphases in say, reading
programs, contains an implied but unspoken device: since
evaluation has been departmentalized into cognitive, affec-
tive, and psychomotor domains, be sure to evaluate programs

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[1]B. F. Skinner, Beyond Freedom and Dignity (New York:
Bantam Books, 1971), p. 183.

in terms of only measurable and specific skills which are
learned. The cognitive domain, as thus described, fits
neatly and efficiently into the category of measurable and
specific skill learning. Thus, concerns have become highly
focused upon behavior of a cognitive type, and progressively
less focused upon the behaver and the affective determiners
of his individual learning and intellectual adjustment.
Which is to say, there is probably an overemphasizing of the
evaluation of learning behaviors as an outcome while at the
same time an omitting of the evaluation of behavers' learning
as a function of their individual perceptions. "Non-reading"
adolescents are definitely an outcome, and their further
evaluation may or may not lead to reconstruction of basic
reading ability. However, reconstructive efforts which
evaluate the "non-reading" adolescent in terms of his learn-
ing and non-learning behavior as a function of his individual
perception of experience may be viewed as open-ended and may
be contrasted with alternatives which seek to produce people
with set patterns of behavior, ready to respond in ways
predetermined by persons other than the behaver. Open-ended
evaluation also provides a means of relating to human needs
which is opposed to indoctrination, rigid habit patterns and
inculcation. Studies in social psychology emphasize the
ultimate significance of classroom social climate, social
organization, group dynamics, and teacher-student inter-
action. Learning to read involves constant interaction

between teacher and student perception and expectancies. Out-
comes as measured by achievement depend more upon the patterns
of perception than upon actual methods of instruction or
materials used.[1] The purpose of reconstructive reading
education, therefore, must rest firmly on the assumptions
that <u>behavior is a function of perceptions</u>, that man is self-
actualizing, and that his primary need is to maintain and to
enhance his self-organization, believing as he perceives, and
as Bills found, capable of initiating action and directing
that action in accord with his perception of how he can best
enhance himself.[2]

Significance of Affective Reaction in Learning

Such terms as "cognitive" and "affective" have under-
gone considerable modification since they were introduced in
the taxonomies alluded to above. Patterson, for example,
showed that cognitive behavior is a part of all purposive and
goal-directed acts, while the other aspects of behavior are
affective strivings, feelings, and emotions.[3] But Thorne's

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[1]J. Whithall and W. Lewis, "Social Interaction in
the Classroom," <u>Handbook of Research in Teaching</u>, ed. N.
Gage (Chicago: Rand McNally, 1963), pp. 693-714.

[2]R. E. Bills, "Believing and Behaving: Perception
and Learning," <u>Learning More About Learning</u>, ed. A. Frazier
(Washington, D.C.: Association for Supervision and Curricu-
lum Development, 1959), p. 63.

[3]C. H. Patterson, <u>Theories of Counseling and Psycho-
therapy</u> (New York: Harper and Row Publishers, Inc., 1966),
p. 13.

view of education represents what has become a familiar
position in education in recent years, that is, its purpose
is the inculcation of cognitive skills specifically related
to reasoning and to memory, while feelings and emotions are
to be suppressed because they interfere with and are disrup-
tive of the learning process.[1] And now, after many years,
reading educators and many others have come to recognize in
varying degrees that attitudes and feelings are not only
facilitators of motivation but are prepotent to learning so
that inattention or casual disregard of affective factors in
the reading situation may substantially add to interference
and subvert normal learning behavior. Brown takes the view
that expression of affect in the classroom is a legitimate
and valuable outcome in and of itself.[2]

Affective reactions are considered by frustration
theorists as adequate insofar as they are _progressive_ rather
than _retrogressive_ in their implications.[3] Responses,
therefore, which tend to bind the non-reader to the past
unduly or which interfere with reactions in later situations
are less adequate than those which leave him free to meet

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[1]F. C. Thorne, How to be Psychologically Healthy
(Brandon, Vt.: Clinical Psychology Co., 1966), pp. 4-5.

[2]G. Brown, Human Teaching for Human Learning (New
York: Viking Press, 1970), pp. 1-228.

[3]S. Rosenzweig, "A General Outline of Frustration,"
Frustration, the Development of a Scientific Concept, ed.
R. Lawson (New York: The MacMillan Co., 1965), p. 67.

new reading situations as they occur. <u>Retrogressive</u>
responses in a frustrating situation thereby make for inap-
propriate reactions in later situations. <u>Progressive</u>
behavior, however, aids the natural development of the
individual limited only by his own potential and the envi-
ronmental demands placed upon him. For others, affect has
gained increasing interest because of its potential use as
a tool of manipulation. Glasser, in this vein, maintained
that affect is most appropriately <u>used</u> in the classroom as
a means of gaining student interest and to aid in the acqui-
sition of cognitive skills.[1] The relationship of personality
to such uses is ignored, however.

Piaget proposed that human personality evolves from
a composite of intellectual and affective <u>functions</u> and from
the dynamic interactions which result. The purposes of the
intellectual processes are to provide, therefore, organiza-
tion and integration of cognitive and affective dimensions
of the personality.[2] Using affect, therefore, as a means of
gaining student interest and acquisition of cognitive skills
is in reality a use of personality variables, and should be
so identified.

The Berlyne investigations concluded that persons

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[1]W. Glasser, <u>Schools Without Failure</u> (New York:
Harper and Row, 1969), pp. 1-235.

[2]J. Piaget, <u>The Language and Thought of the Child</u>
(New York: Meridian Books, 1957), pp. 53-71.

are motivated to exert effort in order to gain understanding
of their environment.[1] Kretch and Crutchfield reported
further evidence interrelating affect and cognition in the
Russian studies which revealed that the autonomic nervous
system, when highly stimulated, caused the person to become
highly attentive and vigilant to his environment.[2] In an
earlier work, Kretch and Crutchfield described personality
needs, emotions, and the rigidity of cognitive structure
related to the learning situation. Under the stress of
greatly perceived need, cognitive organization involving a
goal object becomes simplified and isolated from all other
objects and events in the person's field of experience.[3]
In the case of an adolescent "non-reader," therefore, the
immediately perceived barrier of decoding groups of letters
into sensible sound strings become a more dominant object,
attention becoming centered on this as a barrier, the result
being a narrow, rigid, and isolated organization. The
stronger the tension is, the more thwarting the emotional
tone of the reading situation will tend to be.

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[1]D. Berlyne, "The Present Status of Research on
Exploratory and Related Behavior," Journal of Individual
Psychology, XIV (1958), 121-126.

[2]D. Kretch and R. Crutchfield, Elements of Psychology
(New York: Alfred Knopf, 1972), pp. 57-117.

[3]D. Kretch and R. Crutchfield, Theory and Problems
in Social Psychology (New York: McGraw-Hill Book Co., Inc.,
1948), p. 141.

Festinger studied this barrier phenomenon related to cognitive reorganization as an outgrowth of emotional stress and concluded that when a person's cognitive world has contradictory information about himself, he feels uncomfortable and strives to reduce the contradiction in various ways,[1] and these may have marked motivational outcomes, one of which might well be a refusal to learn to read.

Fernald's early studies of reading failure disclosed observations that the mere mention of reading and of writing will often send given adolescents into a paroxysm of fear or rage, or arouse a sullen, negative response. Fernald correlated school as the first group experience for these children, with negative emotions about the situation which became connected through conditioning with the group, with group members, and with group activities.[2] Such youngsters, therefore, tend to progressively withdraw from group associations while assuming a fearful or antagonistic attitude toward school and the various dimensions of its demands upon him, reading tasks being only one such dimension. For lack of effective means in coping with the pressures of the school environment compensation outcomes often result in dramatically affecting personality structure and expression.

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[1]L. Festinger, "A Theory of Social Comparison Processes," Human Relations, VII (1954), 117-140.

[2]G. Fernald, Remedial Techniques in Basic School Subjects (New York: McGraw-Hill Book Co., Inc., 1943), p. 8.

Personality Reactions

Monroe and Backus delineated such personality reactions in the five reading failure prototypes they investigated: Aggression, withdrawal, compensation, defeat, and hypertension.[1] Described briefly these were:

1. Aggression: The student assumes a position of hateful opposition toward reading, toward teachers, toward school and its various dimensions and interrelationships.

2. Withdrawal: The student withdraws from what he perceives as an unpleasant and thwarting environment, often through actual physical escape in truancy, and usually through mental withdrawal to some personal activity, as in daydreaming and the pursuit of fantasy experience.

3. Compensation: The student compensates for his reading failure by success in other activities. Sometimes these activities enable the youngster to maintain his self-respect in spite of failure in reading; often, however, the student begins to seek attention and satisfaction in disruptive tactics.

4. Defeat: After repeated failure the student may perceive that he cannot succeed. He may develop an air of utter hopelessness and apathy, becoming so certain of failure he is beaten before he begins again.

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[1]M. Monroe and B. Backus, Remedial Reading, A Monograph in Character Education (New York: Houghton-Mifflin Co., 1937), pp. 8-10.

5. <u>Hypertension</u>: When the student finds no solution
to his reading and adjustment problems, a prolonged period
of tension may result in a firmly established pattern of
worry and general dread which may sequentially give rise to
deleterious personality traits.

Wilson formulated an adjustment hypothesis related
to personal <u>meaning-concentration</u> activities.[1] This helps
to explain why there appears to be "failure-readiness" for
reading tasks in certain types of students and, perhaps, at
certain times in all students. In the contrasting of
Wilson's two extreme personality types, extroverts and
introverts, additional parameters are brought into focus for
better understanding the role of personality structure in
facilitation and/or obstruction of learning to read and
reading to learn. An extrovert tends to recoil from a page
of print because it strikes him as meaningless; its meaning-
concentration is too low. But, for him, athletics, disrup-
tive behavior, or social interaction may be high in meaning-
concentration. The introvert, vis-a-vis the extrovert,
tends to recoil from mere physical activity because it strikes
him as meaningless; he wants to use his energies in what are
for him, high meaning-concentration areas such as reading,
using dictionaries, thinking, and general intellectual

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[1]C. Wilson, <u>New Pathways in Psychology: Maslow and
the Post-Freudian Revolution</u> (New York: Taplinger Publish-
ing Co., 1972), p. 113.

pursuits. These two extremes are, perhaps, oversimplified for purposes of contrast, but the obvious perceptual thread of internal organization influencing readers and "non-readers" warrants increased attention and investigation.

Student Perceived Cause-Effect

Heckhausen and Weiner identified four specific dimensions perceived by the student for his success or failure in learning situations. Two causes were perceived by students as having to do with external and environmental factors: luck and the ease or difficulty of a task. The remaining two causes were perceived by students as having to do with inter-nal and personal factors: ability and effort.[1] Such findings are highly significant because of the emphasis attributed to the ultimate source of success or failure in reading perform-ance, individual perceptions of: self-need and environmental pressure. Rotter posited that the student's motivation to achieve a given task increases when he perceives that his success and his improved performance has come from his own inner resources.[2] When the student does not perceive

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[1]H. Heckhausen and B. Weiner, "The Emergence of a Cognitive Psychology of Motivation," New Horizons in Psychology, ed. C. P. Dodwell (Baltimore: Penguin, 1972), pp. 126-147.

[2]J. B. Rotter, "Generalized Expectancies for Internal Versus External Control of Reinforcement," Psychological Monographs, LXXX (1966), 1-28.

that he has achieved or can achieve increasing power to deal with his personal and environmental pressures by virtue of reading skills he is being taught and related tasks, he apparently disengages from the learning process by progressively reducing efforts and involvement in cognitive outcomes planned by his reading teachers and the school.

The Coopersmith and Feldman study found that attempts to limit or exclude affect from the learning situation had significant and profound effects upon student cognition.[1]

Though there has been national recognition of Gates' study showing that as high as seventy-five percent of students with severe reading disabilities showed personality maladjustments,[2] acknowledgement alone, has been insufficient for effectively dealing with the secondary "non-readers" Williamson described as hostile, defensive, or autistic and withdrawn.[3] Bell, Lewis, and Anderson found secondary "non-readers" experienced gross frustration arising from doing poorly in reading skills and that this frustration was

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[1]S. Coopersmith and R. Feldman, "Promoting Motivation Through Inter-Related Cognitive and Affective Factors," Claremont Reading Conference, Thirty-Seventh Year Book, ed. M. Douglas (Claremont: Claremont Graduate School, 1973), pp. 132-133.

[2]A. Gates, "The Role of Personality Maladjustment in Reading Disability," Journal of Genetic Psychology, LIX (1941), 77-83.

[3]A. Williamson, "Affective Strategies for the Special Reading Teacher," Journal of Reading, XVII (December, 1973), 228.

manifested in three patterns of adjustment: <u>aggressive</u>
<u>tendencies</u>, <u>passivity</u>, and <u>negativism in dealing with</u>
<u>authority figures</u>.[1] These findings suggest that these "non-
readers" may have been unable to control or to inhibit their
frustrations beyond minimal levels. That there was still
frustration present after many years of repeated failure
signifies a persistent desire to learn to read which was
strongly imprinted in the personality structure. Would such
a desire eventually lead to reconstruction of basic reading
skill when conditions were perceived as being right by the
individual involved? Longitudinal follow-up studies might
reveal a surprising answer. Much of present reading research
into the effectiveness of various instructional methods in
the classroom is often pointless. Spache reported that such
comparative research tends to ignore the fact that the
dynamic practices of the teacher and the kinds of teacher-
pupil interactions and perceptions promoted are the most
important <u>determinants</u> of student reading achievement.[2]

The need for a theoretical tool which would account
for such personality features has been well established in
the literature since the publication of James' <u>Principles</u>

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[1]B. Bell, F. Lewis and R. Anderson, "Some Personality
and Motivational Factors in Reading Retardation," <u>Journal of</u>
<u>Educational Research</u>, LXV (January, 1972), 5, 229-233.

[2]G. Spache, "Psychological and Cultural Factors in
Learning to Read," <u>Reading for All</u>, ed. R. Karlin (Newark:
International Reading Association, 1973), p. 43.

of Psychology, in 1890,[1] and particularly within the past ten years since Coopersmith's study of self-esteem development.[2]

Humanistic Self-Perception

Contemporary personality theory has much to offer the reading practitioner in an understanding of the "non-reader's" self as a collection of functions of the person-ality. Most of these functions have generally been thought of as existing beneath the level of conscious awareness; however, within legitimate reading research parameters, much data has been collected which suggests that a person's consciously held ideas, beliefs, and values exert a profound influence on his behavior. In the perception studies of Blum,[3] Chodorkoff,[4] and Erickson,[5] recognition thresholds of individuals were either raised or reduced as a function of anxiety arousing stimuli when care was taken to ask subjects if the stimulus was anxiety provoking and if characteristic

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[1]W. James, Principles of Psychology (New York: Holt, 1890), pp. 1-1400.

[2]S. Coopersmith, "Relationships Between Self-Esteem and Sensory (perceptual) Constancy," Journal of Abnormal Psychology, LXVIII (1964), 2, 217-221.

[3]G. Blum, "An Experimental Reunion of Psychoanalytic Theory and Perceptual Vigilance and Defense," Journal of Abnormal Social Psychology, XLIX (1954), 94-98.

[4]B. Chodorkoff, "Self-Perception, Perceptual Defense and Adjustment," Journal of Abnormal Social Psychology, XLIX (1954), 29-35.

[5]C. Erickson, "The Case for Perceptual Defense," Psychological Review, LXI (1954), 175-183.

anxiety response modes were considered in relation to the individual's self-perceptions. Rogers defined the <u>self</u> as a structure of well organized perceptions of one's own characteristics and abilities, relationships to others and to the environment, the qualities and values associated with experiences and objects, positive or negative goals and ideals, and in general, an organized picture, <u>existing in awareness</u> as foreground or background of past, present, and future.[1] Such perceptions, according to Snygg[2] and Combs[3] can be obtained reliably solely on the basis of the individual's self-report through responses to given statements and specific answers to questions asked by a reading teacher. It is obvious that great care is required in the construction of questions and in the interpretation of responses in order to prevent examiner bias from creeping in and to be certain of the consistency of response. Knowledge of the "non-readers'" self-perceptions is an appropriate place to begin in reconstructive efforts. In summary, it has been reported above that self-theorists suggest knowledge of the individual's

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[1]C. Rogers, <u>Client-Centered Therapy</u> (Boston: Houghton-Mifflin Co., 1959), p. 501.

[2]D. Snygg and A. W. Combs, "The Phenomenal Approach and Unconscious Behavior," <u>Journal of Abnormal Social Psychology</u>, XLV (1950), 523-528.

[3]D. Snygg and A. W. Combs, <u>Individual Behavior</u> (New York: Harper and Row, 1959), pp. 1-522.

self-perceptions and those he maintains regarding his
environment will significantly increase the predictability
of his behavior inasmuch as the totality of these percep-
tions, cognitions, and affective states serve him as a
personal reference frame for past, present, and future
experience. Therefore, the individual behaves in a manner
congruent with the kind of person he believes himself to
be, and the person he perceives others as believing him
to be.

Mead proposed a significant sequence of behavior in
his concept of "I," where the "I" gives a sense of freedom
and individual initiative.[1] That is to say, one makes an
effort to live up to expectations of the "I" by attempting
to make one's behavior consistent with the "I" expectations,
as one perceives it. But, neither the individual's percep-
tions of self nor his world-view are static. Both change and
both are continually acting and reacting. Murphy described
this human potentiality in this way:

> Affection and trust, belief in the unrealized potenti-
> alities of other human beings, calls into existence
> not only what is wanting to bud, but what could never
> otherwise be; and others responding in their turn,
> lift those who reached out to them to a plane which
> they themselves could never have defined.[2]

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[1]G. H. Mead, Mind, Self and Society (Chicago:
University of Chicago Press, 1934), p. 117.

[2]G. Murphy, "Human Potentiality," Journal of Social
Issues, No. 7 (1953), 10.

In reconstructive efforts with adolescent "non-readers" we are clearly dealing with much more than basic reading skill cognitions and are very much in need of concepts such as those suggested by Laing,[1] which would explain both the interaction and inter-experience between and within individuals, the relationships which exist between and within them at a given moment, and their roles in the outcome or system which is thus created.

Adlerian personality constructs are sufficiently relevant to encompass the protocols of adjustment which appear to be well established as appropriate pathways for reconstructive strategies in "non-reading adolescents." Adler believed strongly that inner causation was the primary source of all human behavior.[2] It is clear that Adler originated the precept that it is not the child's experiences alone which dictate his actions but his conclusions drawn from that experience.[3] Formulations of perceptions begin very early in one's life and these conclusions may persist throughout later life becoming very resistant to modification or direct manipulation by others. The cognition

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[1] R. D. Laing, Interpersonal Perception: A Theory and a Method of Research (New York: Perrenial Library, Harper and Row Publishers, 1972), p. 7.

[2] A. Adler, The Science of Living (New York: Greenberg Publishers, Inc., 1929), pp. 1-264.

[3] A. Adler, What Life Should Mean To You (Boston: Little, Brown and Co., 1931), pp. 1-300.

theorists Gardner,[1] Kagan,[2] and Witkin,[3] reported that even

very young children, when coming to school for the first

time, having already begun to exhibit individual strategies

for coping with:

    a.   Problems arising from the child's internal person-
        ality needs, and

    b.   Problems arising from external demands of the
        environment.

These investigators referred to the child's typical approach

to such problems as his "cognitive style," meaning that

such patterns were directly associated with the child's

personality organization. <u>Cognitive style</u> should therefore

be viewed as a relatively stable preference for a certain

mode of perceptual ordering of the external world which is

then directly related to one's own sense of himself as a

person. What this says to the reading practitioner is

therefore, that there is present in all individuals and

consequently in adolescent "non-readers" an overriding

dominion of affective perceptual experience with which one

must somehow become familiar if he is to work reconstructive

[1]R. W. Gardner, "The Development of Cognitive Struc-
tures," <u>Cognition: Theory, Research, Promise</u>, ed. C.
Scheerer (New York: Harper & Row, 1964), pp. 1-205.

[2]J. Kagan, "Psychological Significance of Styles of
Conceptualization," <u>Basic Cognitive Processes in Children</u>,
eds. J. C. Wright and J. Kagan. Monograph of the Society
for Research in Child Development, 1963, pp. 73-112. (No.
2, Serial No. 86.)

[3]H. A. Witkin, <u>Psychological Differentiation</u> (New
York: John Wiley and Sons, Inc., 1962), pp. 1-87.

strategies suited to the student's needs. In striving to achieve a balance between affective and cognitive emphasis in an age of accountability preoccupations, teachers may yet learn to conceive of the school as a communication center where both student and teacher receive information and feeling, and learn to organize and evaluate it. Such an environment worthy of study and analysis may further penetrate with understanding the human affective and cognitive processes. However, many reading researchers have come to think solving the problems of "non-readers" in secondary schools was to bring the elementary school's programs into a greater degree of accountability, a procedure which lies exclusively within the domain of that which can be directly and objectively calculated and manipulated. Adler's individual psychology should turn researchers' attention toward another dimension and another kind of reality: toward the recalcitrant and often ambiguous facts of our human nature and its imperatives. That is why this researcher believes that the further development of knowledge of the individual "non-reader's" perception characteristics is a fruitful endeavor for all those who are concerned with reconstruction and restoration efforts. Can teachers of reading afford to fling themselves into the spectacular visions of an improved reading technology at the elementary and secondary levels of tomorrow without keeping an eye on the human nature which will still be very much with them, and which is supposed to be the recipient of

those illusory marvels? Yankelovich and Barrett succinctly

remarked:

> What shall it profit Man if he gains the whole world,
> technologically speaking, but enters that glittering
> future impoverished and stunted in his individual
> experience.[1]

THE INSTRUMENTS

The Jesness Inventory: Screening Instrument

This instrument of 155 items was developed as part

of a five-year research study by Carl Jesness,[2] and is a

measure designed for use in the classification and treatment

of children and adolescents.

The Jesness Inventory consists of forced-choice true-

false items providing scores on eleven personality character-

istics from among seven sub-scales. The development of this

instrument was a consequence of the apparent lack of an

available structured test which was sensitive yet stable

enough to provide a reliable measure of adolescent personality

types which were associated with "non-reading" behavior.

The Asocial Index provided by this instrument corre-

lates the proportion of subjects scoring at or above asocial

levels and the probability of an individual at any given

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[1]D. Yankelovich and W. Barrett, Ego and Instinct,
the Psychoanalytic View of Human Nature (New York: Random
House, 1970), p. 469.

[2]C. F. Jesness, The Jesness Inventory: Development
and Evaluation, California Youth Authority, Research Report
No. 29, March, 1962, pp. 10-39.

score being positively identified as an adjudicated delinquent
prior to his eighteenth birthday. This index was used as a
portion of the screening data the researcher gathered in
selecting his sample from the school population. It was
believed that if an individual subject met the specified
"non-reading" criterion described in Chapter 3, the investi-
gation would yield the most meaningful implications and
findings if those subjects who were identified by the Jesness
Inventory as having probably less than a sixty percent chance
of social success in later life, were screened out of the
sample. Though an investigation would be warranted on those
excluded by this percentage probability, such an undertaking
was clearly outside the scope of this study.

The Machiavellianism Scale: The Mach

This scale of twenty items was developed by Christie
and Geis[1] and was selected because of its design to meter
the degree to which an individual perceives other persons as
manipulable. Although high scoring Machs have not been found
to predominantly manipulate others in their life transactions,
this scale has been shown to be an accurate predictor of
manipulative behavior toward others under experimental condi-
tions.[2]

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[1]R. Christie and F. Geis, Studies in Machiavellianism
(New York: Academic Press, 1970), pp. 1-107.

[2]Ibid.

Machiavellianism has been found to be independent of intelligence, socioeconomic status, level of education, and marital status. It does not measure pathological personality disorders.

In the present exploratory study it was predicted that high scores on the Mach Scale, as indicators of a perception of others as objects to be manipulated rather than as persons, would describe a low degree or lack of social interest. Therefore, high scores on the Mach Scale would be associated with externality on the dimensions of the Personality Needs-Perception and Environmental Force-Perception Indexes. Most of the items in the Mach Scale were extracted directly from Machiavelli's, The Prince, by Christie and Geis.[1]

Belief in the manipulability of others, coupled with the predictive validity of the Mach Scale established on behavioral criterions, would seem to indicate quite strongly that the "non-reader" as an adolescent has acquired a desire for power and superiority over others and a cynicism implicit in the Machiavellian view, whether or not, their life styles actually include manipulations of others or not. Authoritarian desires were found by Christie[2] to be inversely related to Machiavelli's reporting that the authoritarian

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[1]R. Christie and F. Geis, "The Machiavellis Among Us," Psychology Today, IV (1970), 82-86.

[2]Ibid.

believes that man should be good, whereas high scoring Machs
believe that since man is no good, advantage should be taken
of him.

In summary, it was held that Machiavellianism would
be predictive of externality to the extent it correlated with
the Needs-Force dimensions; that it would reflect a low degree
of social interest--reflected in perceptions of striving for
power and superiority over others; and that high scores would
reflect a meaningful relationship to the "non-reading"
behavior in the individual's phenomenological universe.

Personality Needs-Perception

This 150 item instrument was designed to measure the
subject's perception of his own personality needs. Need
refers to an unstable or disturbed equilibrium in behavior.
Handy suggested that "behavior" should be viewed as greatly
more than just the aspects of the person: the interaction
between the person and the environment. As such, "behavior"
is found throughout all adjustive behavior and is typically
accompanied by increased tension and protracted activity.[1]
The behavior concerned may focus on aspects of achievement
of a goal object or on the avoidance of some object or situa-
tion. The implications for understanding the proximate cause
of reading failure in adolescents seem profound here. Needs,
therefore, may be viewed as organizational tendencies in the

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[1]R. Handy, The Measurement of Values (St. Louis:
Warren H. Green, Inc., 1970), pp. 184-185.

individual which would appear to give unity and direction to his behavior. Murray originally defined "need" as a force (the psychochemical nature of which is unknown) in the brain region, a force which organizes perception, apperception, intellection, conation, and action in such a way as to transform in a certain direction an existing, unsatisfying situation.[1]

The presumed biological and operant aspects of psychogenic needs have never been given serious investigation by reading researchers or anyone else. Murray has referred to need as "a nonobservable construct or intervening variable which belongs . . . to a category of disposition concepts. It is a state, in short, that is characterized by the tendency to actions of a certain kind."[2] In Murray's reference, two significant aspects are observed. First, needs are functional in character, identified with the goals that an interaction serves for the individual. In this view, a listing of needs is basically a taxonomy of objectives that individuals characteristically strive to achieve for themselves. Constructs of this kind refer to entities which are not, in themselves, directly observable but may be inferred from observations of an interaction. So that the second aspect

[1]H. A. Murray, Explorations in Personality (New York: Oxford University Press, 1938), p. 124.

[2]H. A. Murray, "Toward a Classification of Interaction," Toward a General Theory of Action, eds. T. Parsons and E. A. Shields (Cambridge: Harvard University Press, 1951), p. 435.

of a need is that it is revealed in the modes of behavior utilized by the individual. A listing of needs is a taxonomy of interaction processes. It may be said then that needs may therefore be identified as a taxonomic classification of the characteristic responses or spontaneous behaviors manifested by individuals in their life transactions.

Environmental Force-Perception

This 150 item instrument was designed to measure the subject's perception of forces bearing on him from the environment. The concept of environmental force-perception provides an external situational counterpart to the internalized personality needs. In the ultimate sense, environmental force-perception, refers to the phenomenological world of the person, the unique and subjectively private perception each person has of the events in which he takes part. The interpretations of experience may be quite different from individual to individual, as they usually are, but only the detached observer can describe the situational climate, the permissible roles and relationships, the sanctions, while the participant only responds in action and reaction.

The concept of environmental force-perception includes conditions which represent impediments to a need as well as those that are likely to facilitate its expression. These conditions, which establish what is commonly referred to as the atmosphere or climate of a given situation, are to be found in the structure created or tolerated by others.

Therefore, it may be said that environmental force-perception
is reflected in a taxonomic classification of characteristic
behaviors manifested by individuals in their mutual inter-
personal transaction and insᴗitutional transactions. Combs
found that in order to understand the behavior of people one
must understand how things seem to them.[1]

Of the various indirect sources from which estimates
of characteristic interactions have been attempted--autobio-
graphical data, interviews, projective tests, aptitude and
achievement tests, inventories of attitudes and values--the
simplest area for inquiry are the preferences which the
adolescent "non-reader" himself, expresses in response
alternatives to verbal descriptions of various possible
actions and reactions for which he has personal preference.

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[1]A. W. Combs, "Seeing is Behaving," _Educational
Leadership_, XVI (October, 1958), 21.

Chapter 3

METHODS AND PROCEDURES

This chapter includes detailed descriptions of the group of subjects, of the procedures through which the subjects were selected and the data collected, and of the instruments used. In the data analysis section, each general expectation of the exploration is listed and followed by the statistical method(s) by which it was tested.

SUBJECTS

An original group of 180 subjects provided data for analyses in the study. The subjects ranging in age from twelve to sixteen years, were seventh, eighth, ninth, and tenth grade male students interviewed and observed from 1969 to 1974. Of the original 180 subjects identified as adolescent "non-readers" data from seventy-three subjects were not included in the analyses, owing to either the obvious faking of responses or to the fact that the screening scales had not been completed in the allotted time for administration. Of the 107 subjects who completed the screening scales, twenty-nine subjects, randomly selected, were closely reevaluated through personal interviews, additional scales, and observation by the researcher.

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The Population

Fresno, California is a medium-sized city of approximately 200,000 residents, located in the geographic center of the San Joaquin Valley midway between San Francisco and Los Angeles. Fourteen junior high schools and seven high schools serve its secondary education needs. The junior and senior high schools employed in this study serve the underdeveloped quadrant of the city, a section of high population density, of low socioeconomic conditions, and historically, the oldest part of the city. The cultural composition of the junior high and senior high school student body within which the study was conducted was approximately 3 percent Chicano and 97 percent Black, whose ninth grade mean reading grade equivalents over the six-year period 1969 through 1973, as measured by the Comprehensive Test of Basic Skills achievement test were: Reading Vocabulary, 6.4; Reading Comprehension, 6.0. Results of the Lorge-Thorndike Intelligence Tests, Multi-Level Edition, Form 1, Level G, indicated a median verbal percentile of 4.66 for the years 1969 through 1972, with a median raw score for this period of 82.8.

Selection of the Group of Subjects

In the absence of an efficiently workable arrangement by which all (N=600) students enrolled could participate in the exploratory study, an alternate means of selecting subjects, which would yield a definable and representative group of adolescent "non-readers" was devised. Inasmuch as

a course in reading was a curricular requirement of all students, and owing to the interest in the study expressed by members of the school faculty and the administration, it was decided that students enrolled in reading classes would constitute the group from which a sample would be drawn. For purposes of this exploratory study, "non-readers" were identified on the basis of the following selection criterion: cases in which standardized test reading performance (expressed as reading age in years and months) fell below chronological age were further sifted to identify those cases in which reading performance (expressed as reading age in years and months) fell below both chronological age and mental age.

It was decided that students so identified would constitute the "non-reading" group to whom the instruments of this investigation would be administered. Although this method of subject selection was not totally randomized due to the exclusion of students previously assigned to Special Education classes, it allowed for maximum possible inclusion otherwise.

DATA COLLECTION PROCEDURES

The Jesness Inventory (Appendix B, page 123) and the Informal Interest Inventory (Appendix F, page 153) were orally administered by the researcher in an individual preliminary screening conference. During subsequent interviews additional instruments were administered in the sequence as follows:

Interview	Instrument Administered
First	Machiavellianism Scale
Second	Personality Needs-Perception Index
Third	Environmental Force-Perception Index
Fourth	School Sentiment Index

Twenty-nine subjects were assigned to a self-contained core curriculum classroom through program changes where they were observed over a thirty-week period for a duration of three and one-half hours daily. The subjects' behavioral characteristics were recorded along a continuum constructed by the researcher, The Sequential Inter-Related Variables of Affective Teaching (Appendix I, page 171).

The interviews and observations were conducted over a period of eighty weeks beginning in September, 1970 and extending through January, 1974.

In order to control the potential interaction of the instructions and information given the subjects on the one hand and their affective mind set in responding to the instruments on the other, a number of standardized oral instructions were given at each interview. Apart from the mechanical details, these instructions included: (1) informing the subject that the study was being conducted under the auspices of the university; (2) assuring subject that the researcher was legally responsible for maintaining confidentiality and that the evaluation of individual students would never be released to anyone; (3) informing subjects that results in percentage terms and relationships among variables would be

discussed in the core curriculum class and related, when appropriate, to the course content; (4) asking subjects to listen carefully to the statements which would be read to them, as they would ordinarily be read only one time; and (5) informing the subjects that the instruments were measures of personal belief, that there were no "right" or "wrong" answers, and that no matter how they answered, their answers would in no way affect their grades or citizenship marks.

Achievement and intelligence test data were assembled from the school records for the individuals in the study.

The Jesness Inventory

The Jesness Inventory consists of 155 forced choice true-false items, designed to measure the reactions of youngsters to a wide range of content. This measure was developed in a five-year research program on delinquency.[1] A brief definition of each scale follows:

1. Social Maladjustment: Refers to a set of attitudes associated with inadequate or disturbed socialization, as defined by the extent to which an individual shares attitudes of persons who demonstrate inability to meet environmental demands in socially approved ways.

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[1] C. F. Jesness, The Fricot Ranch Study: Outcomes With Large Versus Small Living Units in the Rehabilitation of Delinquents, California Youth Authority Research Report No. 47, November, 1965, pp. 12-25.

2. Value Orientation: Refers to a tendency to share attitudes and opinions characteristic of persons in lower socioeconomic classes.

3. Immaturity: Reflect the tendency to display attitudes and perceptions of self and others which are usual for persons of a younger age than the subject.

4. Autism: Reflects the tendency, in thinking and perceiving, to distort reality according to one's personal desires or needs.

5. Alienation: Refers to the presence of distrust and estrangement in a person's attitude toward others, especially toward those representing authority.

6. Manifest Aggression: Reflects an awareness of unpleasant feelings, especially of anger and frustration, a tendency to react readily with emotion, and perceived discomfort concerning the presence and control of these feelings.

7. Withdrawal: Involves a perceived lack of satisfaction with self and others and a tendency toward isolation from others.

8. Social Anxiety: Refers to perceived emotional discomfort associated with interpersonal relationships.

9. Repression: Reflects the exclusion from consciousness, or conscious awareness of feelings and emotions which the individual normally would be expected to experience, or his failure to label these emotions.

10. **Denial:** Indicates reluctance to acknowledge unpleasant events or aspects of reality often encountered in daily living.

11. **Asocial:** Refers to a generalized disposition to resolve problems of social and personal adjustment in ways ordinarily regarded as showing a disregard for social customs or rules.

Machiavellianism Scale

A version of the Mach Scale which had been developed and adopted for use with secondary students was employed in this study. This twenty item version uses a five point response format, ranging from strongly agree, to uncertain or either way, to strongly disagree, a 5-3-1 scoring system yielded a possible range in scores from 20 to 100.

Reliability estimates have been reported to fall typically in the 70's and 80's.[1]

Personality Need-Perception and Environmental Force-Perception Indexes

The personality-needs and the environmental force dimension measures summarized here are derived from the Syracuse Indexes originally developed by the Examiner's

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[1] R. Christie and F. Geis, Studies in Machiavellianism (New York: Academic Press, 1970), pp. 1-107.

Office of the University of Chicago.[1]

There are two tests, each consisting of 150 items in a self-reporting form. Because of the nature of the subjects of this investigation (adolescent non-readers), an individual oral administration was carried out, with the examiner recording subject responses.

Response options provided are: "strongly like or agree," "not sure, either way," and "strongly dislike or disagree."

The basic format: 150 items distributed among thirty scales of five items each. The personality-needs scales parallel those of environmental force, one corresponding to behavioral manifestations of the needs variables, the other to environmental forces likely to facilitate or impede their expression.

The five items of each scale are distributed throughout the entire set of 150 items from the same scale being separated by twenty-nine others from the remaining scales. The direction of the responses on each scale have been varied among the options. Each item receives a score of one to five as keyed, twenty-five being the maximum for any one scale. Norms were unnecessary, as the response pattern was individually interpreted through the item-analysis technique.

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[1]G. Stern, _People in Context: Measuring Person-Environment Congruence in Education and Industry_ (New York: John Wiley and Sons, 1970), pp. 317-362.

DIMENSIONS AND PROTOCOLS DESCRIBED

CLASSIFICATION PROTOCOL	DESCRIPTION
1. Abasement--Assurance:	Self-deprecation and self-devaluation as reflected in the ready acknowledgement of inadequacy, ineptitude, or inferiority _versus_ certainty, self-assurance, self-glorification.
2. Achievement:	Surmounting obstacles and attaining a successful conclusion in order to prove one's worth, striving for success through personal effort.
3. Adaptability--Defensiveness:	Accepting criticism, advice, or humiliation publicly _versus_ resistance to suggestion, guidance, direction or advice, concealment or justification of failure.
4. Affiliation:	Gregariousness, group-centered, friendly, participatory associations with others _versus_ social detachment, social independence, self-isolation, or unsociableness.

CLASSIFICATION PROTOCOL	DESCRIPTION
5. Aggression-- Blame Avoidance:	Indifference or disregard for the feeling of others as manifested in hostility, either overt or covert, direct or indirect, versus the denial or inhibition of such impulses.
6. Change:	Variable or flexible versus repetition and routine.
7. Conjunctivity-- Disjunctivity:	Organized, purposeful, or planned activity patterns versus uncoordinated, disorganized, diffuse, or self-indulgent behavior.
8. Counteraction:	Persistent striving to overcome difficult, frustrating, humiliating, or embarrassing experiences and failures versus avoidance or hasty withdrawal from tasks or situations that might result in such outcomes.
9. Deference:	Respect for authority, submission to the opinions and preferences of others perceived as superior versus non-compliance, insubordination, rebelliousness, resistance or defiance.

CLASSIFICATION PROTOCOL	DESCRIPTION
10. Dominance:	Ascendancy over others by means of assertive or manipulative control _versus_ nonintervention, forbearance, acceptance, permissiveness, humility, or meekness.
11. Ego Achievement:	Self-dramatizing, idealistic social action, active or fantasied realization of dominance, power, or influence achieved through sociopolitical activities in the name of reform.
12. Emotionality:	Intense open emotional expression _versus_ stolidness, restraint, control, or constriction.
13. Energy:	High activity level, intense, sustained, vigorous effort _versus_ sluggishness and inertia.
14. Exhibitionism:	Self-display and attention-seeking _versus_ shyness, embarrassment, self-consciousness, or withdrawal from situations in which the attention of others might be attracted.

CLASSIFICATION PROTOCOL	DESCRIPTION
15. Fantasied Achievement:	Daydreams of success in achieving extraordinary public recognition, narcissistic aspirations for fame, personal distinction, or power.
16. Harm Avoidance:	Fearfulness, avoidance, withdrawal, or excessive caution in situations that might result in physical pain, injury, illness, or death _versus_ careless indifference to danger, challenging or provocative disregard for personal safety, thrill-seeking, boldness, venturesomeness, or temerity.
17. Humanities, Social Science:	The symbolic manipulation of social objects or artifacts through empirical analysis, reflection, discussion, and criticism.
18. Impulsiveness:	Rash, impulsive, spontaneous, or impetuous behavior _versus_ care, caution, or reflectiveness.
19. Narcissism:	Self-centered, vain, egotistical, preoccupation with self and one's own personality.

CLASSIFICATION PROTOCOL	DESCRIPTION
20. Nurturance:	Supporting others by providing love, assistance, or protection versus disassociation from others, indifference, withholding support, friendship or affection.
21. Objectivity:	Detached, nonmagical, unprejudiced, impersonal thinking versus autistic, irrational, paranoid, or otherwise egocentric perceptions and beliefs-superstition.
22. Order-Disorder:	Compulsive organization of the immediate physical environment, manifested in a preoccupation with neatness, orderliness, arrangement, and meticulous attention to detail versus habitual disorder, confusion, or carelessness.
23. Play--Work:	Pleasure-seeking, sustained pursuit of amusement and entertainment versus persistently purposeful, serious, task-oriented behavior.

CLASSIFICATION PROTOCOL	DESCRIPTION
24. Practicalness:	Useful, tangibly productive, businesslike applications of skill or experience in manual arts, social affairs, or commercial activities _versus_ a speculative, theoretical, whimsical, or indifferent attitude toward practical affairs.
25. Reflectiveness:	Contemplation, introspection, preoccupation with private psychological, spiritual, esthetic, or metaphysical experience.
26. Science:	The symbolic manipulation of physical objects through empirical analysis, reflection, discussion, and criticism.
27. Sensuality:	Sensory stimulation and gratification, hedonism, preoccupation with aesthetic experience _versus_ austerity, self-denial, abstinence, frugality, self-abnegation.

CLASSIFICATION PROTOCOL	DESCRIPTION
28. Sexuality:	Erotic heterosexual interest or activity _versus_ the restraint, denial, or inhibition of such impulses.
29. Supplication-Autonomy:	Dependence on others for love, assistance, and protection _versus_ detachment, independence, or self-reliance.
30. Understanding:	Detached, intellectual, problem-solving analysis, theorizing, or abstraction as ends in themselves.

Informal Interest Inventory:
  Screening Instrument

This questionnaire (see appendix) enabled the researcher to: (1) obtain the full names and addresses of those subjects selected for the study; (2) obtain descriptive personal data on personal interests and activities to be used as indicators and checks on the validity of the instruments; and (3) assess the subject's reactions to an interview setting in which personal questions were asked.

ANALYSES OF THE DATA

The hypotheses of the investigation are presented in their null form, each followed by the statistical method(s) with which it was tested. All tests were two-tailed, and the probability level required for significance was .10 in all cases, owing to the exploratory nature of the investigation.

I. There is no significant correlational relationship among scores on the Mach Scale, Personality Needs-Perception Index, Environmental Force-Perception Index, or the Jesness Inventory, when analyzed as relationships between pairs of variables.

Pearson Product-Moment Correlation Coefficients were computed for the combinational pairs and variables, as below:

A. Mach Scale vs. Jesness Inventory sub-scales

B. Mach Scale vs. Personality Need-Perception Index Sub-Scales

C. Mach Scale vs. Environmental Force-Perception Sub-Scales

D. Jesness Inventory vs. Personality Need-Perception Sub-Scales

E. Jesness Inventory vs. Environmental Force-Perception Sub-Scales

II. Through factor analyses there is no significant reduction to fewer hypothetical factors from among the grouped protocols and scale variables for the group of subjects in this study. The thirty perception protocols of the Needs-Force indexes were grouped under seven categories recommended

for statistical analyses in Stern's cluster and factor
matrices.[1]

I.	Personal Dignity	Abasement-Assurance Dominance-Tolerance Objectivity-Projectivity Conjunctivity-Disjunctivity Counteraction
II.	Intellectual Climate	Humanities Science Reflectiveness Understanding Fantasied Achievement Sensuality-Puritanism Ego Achievement Exhibitionism Change-Sameness Nurturance Narcissism Aggression-Blame Avoidance
III.	Achievement Standards	Counteraction Energy-Passivity Achievement Emotionality-Placidity Ego Achievement Change-Sameness Abasement-Assurance Understanding Adaptability-Defensiveness Play-Work Conjunctivity-Disjunctivity Fantasied Achievement Exhibitionism Practicalness-Impracticalness
IV.	Closeness	Affiliation Supplication-Autonomy Aggression-Blame Avoidance Harm Avoidance-Risktaking Nurturance Exhibitionism Play-Work Adaptability-Defensiveness

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[1]Stern, pp. 36-63.

V.   Impulse Control   Work-Play
                          Prudishness-Sexuality
                          Blame Avoidance-Aggression
                          Deliberation-Impulsiveness
                          Placidity-Emotionality
                          Inferiority Avoidance-Counteraction
                          Harm Avoidance-Risktaking

VI. Orderliness   Order-Disorder
                          Narcissism
                          Adaptability-Defensiveness
                          Conjunctivity-Disjunctivity
                          Harm Avoidance-Risktaking
                          Deference-Restiveness
                          Practicalness-Impracticalness
                          Change-Sameness
                          Impulsiveness-Deliberation
                          Aggression-Blame Avoidance
                          Sensuality-Puritanism

VII. Group Life   Practicalness-Impracticalness
                          Nurturance
                          Affiliation
                          Supplication-Autonomy
                          Exhibitionism
                          Play-Work
                          Adaptability-Defensiveness
                          Narcissism
                          Dominance-Tolerance
                          Energy-Passivity
                          Achievement
                          Conjunctivity-Disjunctivity

Chapter 4

RESULTS

In this chapter each hypothesis is restated, the
results of the analyses presented, and a statement of the
disposition of the hypothesis made.

Hypothesis I. There is no significant correlational
relationship among scores on the Mach Scale, Personality
Needs-Perception Index, Environmental Force-Perception Index,
and the Jesness Inventory, when analyzed as relationships
between pairs of variables.

The findings reported in Tables 1 through 6 reveal
that of the fifty-one correlations between pairs of variables,
seventeen were significantly different from zero. Hypo-
thesis I, therefore, was rejected in seventeen relationships
and not rejected in thirty-four. Details of these findings
follow.

Table 1 (page 84) shows that scores on the grouped
Needs-Force Perception protocols correlated significantly
with each other in Group Life, Closeness, and Intellectual
Climate. A non-significant relationship was found in Order,
Impulse Control, Achievement Standards, and Personal Dignity.

As is shown in Table 2 (page 85), there were no
significant relationships found among the Mach Scale and the

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Jesness Inventory subscales of Value Orientation, Immaturity, Autism, Alienation, Manifest Aggression, Withdrawal, Social Anxiety, Repression, Denial, and the Asocial Index.

Tables 3 and 4 (pages 86 and 87) reveal the findings that there were no significant relationships found among the Mach Scale and the Needs-Force grouped protocols of Group Life, Order, Impulse Control, Closeness, Achievement Standards, Personal Dignity, and Intellectual Climate.

Table 5 (page 88) shows significant relationships were found between Jesness Inventory subscales and Personality Needs-Perception protocols as follows:

Positive Correlation

Intellectual Climate/Immaturity
Impulse Control/Social Anxiety

Negative Correlation

Impulse Control/Immaturity
Group Life/Autism
Achievement Standards/Denial

Table 6 (page 89) reveals significant relationships were found between the Jesness Inventory subscales and Environmental Force-Perception protocols as follows:

Positive Correlation

Personal Dignity/Value Orientation
Impulse Control/Alienation
Achievement Standards/Manifest Aggression
Orderliness/Repression
Intellectual Climate/Withdrawal
Intellectual Climate/Asocial Index

Negative Correlation

Closeness/Alienation
Intellectual Climate/Social Anxiety
Group Life/Asocial Index
Achievement Standards/Asocial Index

Tables 7 through 32 (pages 90-115) show the findings related to the raw scores, frequency distribution, proportions, means, standard deviations, medians, and range on test instruments used in this study. These unrefined findings showed no significant trends.

Tables 33 and 34 (pages 116 and 117) summarize for the reader those findings reported in Tables 7 through 32, and include entries showing the total possible point units obtainable on each instrument and the actually obtained percentage expressed as a percentage of possible point units.

Table 35 (page 118) summarizes the findings related to raw scores obtained in the study from responses to the School Sentiment Index subscales, from which no significance was produced.

Hypothesis II. Through factor analysis there is no significant reduction to fewer hypothetical factors from among the grouped protocols and scale variables for the group of subjects in this study.

The findings in Table 36 (page 119) show the Inter-correlation Matrix for the variables used in the factor analysis as follows:

Factor Analysis
Positive Correlation

Group Life--Needs/Closeness--Needs
Intellectual Climate--Needs/Closeness--Needs
Intellectual Climate--Needs/Intellectual Climate--Force

Factor Analysis
Negative Correlation

Group Life--Needs/Impulse Control--Needs
Impulse Control--Needs/Closeness--Needs
Impulse Control--Needs/Intellectual Climate--Needs

Table 37 (page 120) reveals that five undefined hypothetical factors were found when the data were submitted to the computerized test for a factor matrix using principal factor with iterations procedures. The five factors accounted for 70.5 percent of the total variance. Hypothesis II, therefore, was rejected because the twenty-six variables had been significantly reduced to five undefined factors of hypothetical communality.

Table 38 (page 121) shows that, following the Varimax rotation, the computerized factor matrix provided a further reduction from the five undefined hypothetical factors found before rotation to three after rotation, correlations were:

Varimax
Positive Correlation

Factor I/Impulse Control--Needs
Factor I/Closeness--Needs
Factor I/Intellectual Climate--Needs

Factor II/Intellectual Climate--Force

Factor III/Impulse Control--Needs
Factor III/Intellectual Climate--Force

Varimax
Negative Correlation

Factor II/Closeness--Needs

Table 39 (page 122) reveals that following the Vari-
max rotation, the computerized factor matrix for the three
hypothetical factors accounted for 75.0 percent of the total
variance.

SUMMARY OF STATISTICAL ANALYSES

Using the principal factor iteration procedure,
adequate convergence of the number of significant factors and
of the communalities of the twenty-six variables was judged
to have occurred after eleven iterations. From this there
were five apparently significant hypothetical and undefined
factors accounting for 70.5 percent of the variance. Follow-
ing a Varimax rotation the five factors reduced to three which
accounted for 75.0 percent of the total variance. The 25.0
percent associated with uniqueness cannot all be attributed
to error as some interaction among the other variables is
suggested by the performance of the subjects on the remaining
fifteen variable dimensions. And it is also evident that
these dimensions are not artifacts attributable to the paral-
lel nature of the Needs-Force instruments, or that both sets
of responses were obtained from the same subjects, since each
of the Needs-Force instrument contributes variance only to
its own set of grouped perception protocols.

Chapter 5

SUMMARY, CONCLUSIONS, INTERPRETATIONS
AND RECOMMENDATIONS

In this chapter the total study is drawn together.
The study is summarized up to and including the findings.
General conclusions are drawn, interpretations are made,
and recommendations are given for further research.

SUMMARY

The purpose of this study was to frame the outline
of a theory of dynamic individual perception psychology and
then to indicate areas of application for the interdiscipli-
nary oriented reading practitioner. The deviant case study
modality was employed because of its utility and ease, making
possible a facilitation in understanding selected features
of the adolescent "non-reader's" intrapersonal and inter-
personal perception preferences which may contribute to and
propel development and nurturance of the reading failure
syndrome into his later life.

The expectation was that perception preference
patterns would emerge in the form of relationships among the
following parameters: (1) Machiavellianism, a twenty item

measure of the degree of belief in the manipulability of
others as objects; (2) School Sentiment Index, a seventy-
three item measure of the degree of favorable attitude toward
school in general and toward several dimensions of the school;
(3) Personality Needs Perception Index, a 150 item measure
of the degree of perception preference related to personality
needs in relation to objects and others; (4) Environmental
Force Perception Index, a 150 item measure of the degree of
perception preference related to environmental forces
impinging upon the person; (5) Affective Readiness Stages,
an observation format assessing the degree of emotional
development and sophistication observed in the subjects'
interaction with objects and others.

The subjects in the study were 180 seventh, eighth,
ninth, and tenth grade male students interviewed and observed
from 1969 to 1974. Of the original 180 subjects, seventy-
three were not included in the analyses, owing to either the
obvious faking of responses or to the fact that the screen-
ing scales had not been completed in the allotted time for
administration. Of the 107 subjects, twenty-nine subjects
were randomly selected and closely evaluated through personal
interviews, additional scales, and observation over an
eighty-week period by the researcher.

Findings

In the summary of the findings, a restatement of the
null hypotheses and their disposition is made.

Hypothesis I. There is no significant correlational relationship among scores on the Mach Scale, Personality Needs-Perception Index, Environmental Force-Perception Index, and the Jesness Inventory subscales, when analyzed as relationships between pairs of variables.

Pearson Product-Moment correlation coefficients were computed for all fifty-one combinational pairs of the instrument scales used in the study.

Hypothesis I was rejected in seventeen relationships, and not rejected in thirty-four relationships.

Hypothesis II. Through factor analysis there is no significant reduction to fewer hypothetical factors from among the grouped protocols and scale variables for the group of subjects in this study.

Factor analyses before rotation provided a reduction to five factors accounting for 70.5 percent of the total variance. After the Varimax rotation, a final reduction to three factors was obtained and these final three factors accounted for 75 percent of the total variance.

Hypothesis II, therefore, was rejected, as a significant reduction to three hypothetical factors was obtained.

CONCLUSIONS AND INTERPRETATIONS

For the population of "non-reading" adolescents of which the group studied is representative, the results of the study support the following conclusions:

1. Of the fifty-one variable pairs submitted to corre-
lational analysis seventeen pairs were observed to differ
significantly from zero. While the thirty-four remaining
pairs of relationships differed from zero, they were not of
sufficient magnitude to be useful for predictive purposes.
The powerful statistical test of factor analysis provided
an extraction of three factors from the correlational data.
This factor-analytic procedure takes the variance defined by
intercorrelations among the set of measures and allocates
this variance in terms of fewer underlying hypothetical
variables, referred to as factors. The interpretation of
what these factors mean is a matter of subjective evaluation
of the factor matrix and the variables tending to load
highest on each factor.

The study used a number of different measurements,
all presumed to be relevant in one way or another to the
subject's perception of his personality needs of the environ-
mental forces impinging upon him. These included: Group
Life--Needs; Impulse Control--Needs; Closeness--Needs;
Intellectual Climate--Needs; Intellectual Climate--Force;
Social Maladjustment; Immaturity; Autism; Alienation; Social
Anxiety; and the Asocial Index. These measures were highly
correlated among themselves. That is, they were reflecting
to some degree the same underlying trait or aspect as percep-
tion behavior. These eleven measures tended to cluster
about one another, suggesting some unique trait or aspect

of the perception behavior which was being assessed. That is, these measures seemed to be assessing the same thing. In terms of the different clusters, it was concluded that there were actually only three, rather than eleven, different traits or aspects of behavior being measured relative to this group of measures. Therefore, these clusters were taken as the basis for defining what appeared to be the basic variables underlying the eleven different measurements employed in the exploratory study. In describing such behavior, this enables a reduction from eleven to three measurements and lends itself in a more economical way to characterize the behaviors being studied.

2. Factor analysis provides a method for determining upon the basis of relations among a relatively large number of variables, what fewer, more basic and unique variables may underlie this larger number of variables.

The mathematical procedure involved in factor analysis begins with what we know about the correlations among the variables measured in the study. The procedure then undertook the mathematical definition of how the variance among these variables was defined in terms of a set of fewer hypothetical variables further defined in the factor matrix.

Through such analyses, the researcher determined that the three factors extracted from the data were defined as:

Factor I. Unsocialized Aggression
Factor II. Social Approval Anxiety
Factor III. Unsocialized Withdrawal

Factor I. Unsocialized Aggression

This factor reflects a perception preference characterized by overt and covert hostile disobedience, quarrelsomeness, physical and verbal aggressiveness, vengefulness, and destructiveness.

Factor II. Approval Anxiety

This factor reflects a perception preference characterized by continuous anxiety, unrealistic fears, immaturity, self-consciousness, inhibition, frustration, and apprehension of new or unfamiliar situations.

Factor III. Unsocialized Withdrawal

This factor reflects a perception preference characterized by seclusiveness, detachment, sensitivity, shyness, timidity, and general inability to form close interpersonal relationships.

3. The directionality of the three factors support the formulations discussed in Chapter 2 regarding the adjustment patterns of "non-readers" in recent years, e.g., aggressive tendencies, or passivity, or negativism in dealing with authority figures. While the present exploratory investigation does support previous observations by practitioners and researchers, an unexpected extension of those observations has been extracted from present data: for those subjects studied in the present investigation, aggressive tendencies, and passivity, and negativism in dealing with authority

figures may have been perception preference options available in awareness and on demand to the adolescent "non-reader" and may, therefore, be functions of personality influenced directly through interpersonal relationships with others.

This conclusion, therefore, suggests that, indeed, a rationality is operational in reading failure syndrome but one which is masked behind a surface defense of affective irrationality.

RECOMMENDATIONS FOR FURTHER RESEARCH

Additional exploratory investigations of adolescent "non-reading" perceptions are warranted by the findings and conclusions of the present study.

Questions suggested for further research are:

1. Are perception preferences for (a) Unsocialized Aggression; (b) Approval Anxiety; and (c) Unsocialized Withdrawal fixed and stabilized during adolescence?

2. Are perception preferences for (a) Unsocialized Aggression; (b) Approval Anxiety; and (c) Unsocialized Withdrawal present in normalized populations of average to above average adolescent readers?

3. To what measurable extent does the reading practitioner's knowledge of adolescent "non-reader" perception preferences influence or facilitate reconstruction of basic reading skill and desire to read independently?

IMPLICATIONS

Affective irrationality, it must be added, would be a highly successful defense for an adolescent as it would be for anyone else who would prefer to avoid tasks directed by others. In the case of adolescent "non-readers," defense against "persons," perhaps, becomes a projection to defense against what these "persons" value. For "persons," read teachers, reading teachers, remedial reading teachers. For what these "persons" value, read cognitive skills, obedience, excellence of performance. Where there is interpersonal discord, for whatever reason, therefore, one would expect adolescent "non-readers" to protect their self-esteem by using their available defenses. The school milieu has not traditionally equipped itself for dealing humanistically with "non-reading," adolescents who are sophisticates in triple-defiance options. However, the school as an institution may have benefited greatly from those reading practitioners and others who, by their own preferences, have purveyed a necessary humanism in their student contacts.

The study was predominantly of an exploratory nature and should be viewed as the first in a series of research steps focusing on the development and use <u>by reading practitioners</u> of interdisciplinary instruments and measures which reliably assess affective perception preferences consciously held by "non-reading" adolescents.

It is apparent that research efforts must be directed toward the increasingly accurate and rapid measurement of perception preferences in order to test or to reconstruct the rationality and extent of <u>conscious choice</u> present among "non-reading" adolescents. Crucial to this process is the emergence of affective methodological tools which are both valid measures of perception preferences and which are convenient in preparation, application, and interpretation by reading practitioners within the classroom setting. This goal is one toward which the permutations of the present study provided only tentative guidelines.

Evidence for the validity of the existence of an <u>affective rationality of choice</u> in adolescent "non-reading" failure syndrome was general, tentative, and cautiously promising in the present study.

The study was intended neither to promote clinical definitions of normal personality functions nor to yield findings which might be utilized for diagnosis of individual cases of personality disorder in the clinical milieu. The scales employed were designed as affective research instruments for use with small groups of subjects which would be of value in the reading practitioner's classroom.

Those affective measures yielding significant data in the study were: The Jesness Inventory; The Personality Needs Perception Index; and The Environmental Force Perception Index. These measures, and others which are being presently

perfected, offer a previously hidden key to the threshold of understanding through which reading practitioners, teachers, counselors, and school psychologists will, in time, pass with an easy grace.

Designations of the three hypothetical factors of highest commonality found in the population of the present study, e.g., unsocialized aggression, social approval anxiety, and unsocialized withdrawal, were necessarily judgemental, arrived at by the researcher through analysis and inter-pretation of the data as required by the powerful statistical tool of factor analytic inquiry.

Given these qualifications, the findings of the study could be applied, in conjunction with the research directions recommended in the previous section, by qualified reading specialists, teachers, counselors, and school psychologists who are familiar with and who can function comfortably within an interdisciplinary orientation. Under these conditions, the affective scales employed in this study might be appropri-ately applied as aides in the broad and tentative identifica-tion of small groupings of students who would constructively benefit from affective emphasis in programs designed to redirect a "non-reading" rationality toward an acquisition of independent reading ability.

Reading education and education in reading can be nothing more nor less than the changes made in human beings by their experience.

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APPENDIX A

STATISTICAL TABLES

Table 1

Correlation Coefficients Between Grouped Needs
and Force Perception Protocols

Grouped Protocols	Pearson's Intercorrelation r	t	(29 Cases) Probability
Group Life	.6208	4.1144	.0006
Order	.2847	1.5431	.1309
Impulse Control	.2961	1.6108	.1153
Closeness	.5955	3.8159	.0009
Achievement Standards	-.1869	-.9888	.6672
Personal Dignity	.1767	.9328	.6382
Intellectual Climate	.3782	2.1229	.0408

For 28 d.f., correlation coefficient (two-tailed) significant
at: .01 = .463
     .05 = .361
     .10 = .306

Table 2

Mach Scale Intercorrelations with Jesness Subscales

Subscale	Pearson's r	t	(29 Cases) Probability
Value Orientation	.0083	.0430	.9649
Immaturity	-0.2156	-1.1472	.2604
Autism	-0.2264	-1.2077	.2360
Alienation	-0.1511	-0.7941	.5603
Manifest Aggression	-0.0167	-0.0866	.9292
Withdrawal	-0.0908	-0.4739	.6422
Social Anxiety	.0108	.0559	.9547
Repression	-0.0653	-0.3399	.7358
Denial	-0.0219	-0.1139	.9062
Asocial Index	.1649	.8688	.6032

For 28 d.f., correlation coefficient (two-tailed) significant at: .01 = .463
.05 = .361
.10 = .306

Table 3

Mach Scale Intercorrelations with Personality
Needs Perception Grouped Protocols

Grouped Protocol	Pearson's r	t	(29 Cases) Probability
Group Life	.1821	.9623	.6536
Order	-0.0686	-0.3572	.7238
Impulse Control	.0062	.0321	.9733
Closeness	-0.0762	-0.3971	.6964
Achievement Standards	-0.0489	-0.2544	.7965
Personal Dignity	-0.0078	-0.406	.9668
Intellectual Climate	-0.0370	-0.1925	.8429

For 28 d.f., correlation coefficient (two-tailed) significant at: .01 = .463
.05 = .361
.10 = .306

Table 4

Mach Scale Intercorrelations with Environmental
Force Perception Grouped Protocols

Grouped Protocol	Pearson's r	t	(29 Cases) Probability
Group Life	.1325	.6944	.5001
Order	.2476	1.3276	.1927
Impulse Control	.2745	1.4835	.1462
Closeness	-0.1537	-0.8082	.5686
Achievement Standards	-0.1127	-0.5896	.5670
Personal Dignity	.2409	1.2900	.2056
Intellectual Climate	.0150	.0781	.9363

For 28 d.f., correlation coefficient (two-tailed) significant at: .01 = .463

.05 = .361

.10 = .306

Table 5

Jesness Subscale Intercorrelations with the Personality
Needs Perception Grouped Protocols, Pearson's r

	Group Life	Order	Imp Cntrl	Closeness	Achievement Stds	Pers Dig	Int Cl
VO	-0.0107	-0.0287	.0083	.1376	-0.1273	-0.1952	-0.1691
IMM	.0183	.1444	-0.3492	.0771	-0.2268	.2768	.3299
AU	-0.3427	-0.1505	.3207	-0.1831	.1345	.2408	-0.4087
AL	.0912	-0.0334	.2061	.0739	-0.2399	-0.0175	-0.0781
MA	.0863	.0897	.2503	.1134	-0.0761	-0.0971	-0.1218
WD	-0.1804	.1150	.2189	.0743	.0204	-0.1685	.0002
SA	-0.0356	.1231	.3390	-0.0971	-0.3532	.2258	-0.1569
REP	.1213	-0.0303	-0.1675	.0686	-0.0904	.1528	.0602
DEN	-0.1646	.1058	-0.0302	-0.0166	-0.3143	-0.0456	.0318
ASOC INDX	-0.2875	.0200	.0280	.0302	.3231	-0.1744	.2535

For 28 d.f., correlation coefficient (two-tailed) significant at: .01 = .463
.05 = .361
.10 = .306

Table 6

Jesness Subscales Intercorrelations with Environmental
Force Perception Grouped Protocols, Pearson's r

	Group Life	Order	Imp Cntrl	Closeness	Achievement Stds	Pers Dig	Int Cl
VO	-0.0300	.2135	.2328	-0.0841	-0.1891	.3563	-0.0257
IMM	-0.3181	-0.0672	-0.0963	.2344	-0.0187	-0.0523	-0.1787
AU	-0.2204	-0.2420	-0.1899	-0.2171	-0.2159	.1650	-0.1929
AL	-0.0217	.2339	.3406	-0.3318	.0977	.0132	-0.1590
MA	-0.0904	.0630	.0998	.1300	1.384	.0033	-0.2501
WD	.0299	.0970	.1097	-0.2100	-0.1291	.0773	.3778
SA	.1159	.2025	.0208	-0.3042	.0830	-0.0873	-0.3876
REP	-0.1084	.3251	.0617	.2879	-0.0092	.1705	-0.1435
DEN	.1554	-0.0481	-0.1646	-0.0539	.0889	-0.0680	.1011
ASOC INDX	-0.3584	-0.2194	-0.0247	.1282	-0.3339	-0.0580	.3164

For 28 d.f., correlation coefficient (two-tailed) significant at: .01 = .463
.05 = .361
.10 = .306

Table 7

Basic Descriptive Statistics for the Personality
Needs Perception Grouped Protocols:
GROUP LIFE--NEEDS

Raw Score Interval	Frequency	Proportion
288.0-271.5	5	.1724
271.5-255.0	1	.0345
255.0-238.5	1	.0345
238.5-222.0	6	.2069
222.0-205.5	1	.0345
205.5-189.0	3	.1034
189.0-172.5	5	.1724
172.5-156.0	1	.0345
156.0-139.5	2	.0690
139.5-123.0	4	.1379

Mean Value	206.1724
Standard Deviation	52.0721
Median	202.7500
Range	165.0000
N	29

Table 8

Basic Descriptive Statistics for the Environmental
Force Perception Grouped Protocols:
GROUP LIFE--FORCE

Raw Score Interval	Frequency	Proportion
275.0-262.2	1	.0345
262.2-249.4	2	.0690
249.4-236.6	3	.1034
236.6-223.8	5	.1724
223.8-211.0	7	.2414
211.0-198.2	5	.1724
198.2-185.4	1	.0345
185.4-172.6	1	.0345
172.6-159.8	1	.0345
159.8-147.0	3	.1034

Mean Value	214.2069
Standard Deviation	31.3225
Median	217.4000
Range	128.0000
N	29

Table 9

Basic Descriptive Statistics for the Personality
Needs Perception Grouped Protocols:
ORDER--NEEDS

Raw Score Interval	Frequency	Proportion
264.0-249.5	3	.1034
249.5-235.0	0	0
235.0-220.5	2	.0690
220.5-206.0	2	.0690
206.0-191.5	6	.2069
191.5-177.0	9	.3103
177.0-162.5	1	.0345
162.5-148.0	3	.1034
148.0-133.5	0	0
133.5-119.0	3	.1034

Mean Value	189.4483
Standard Deviation	36.0125
Median	189.0833
Range	145.0000
N	29

Table 10

Basic Descriptive Statistics for the Environmental
Force Perception Grouped Protocols:
ORDER--FORCE

Raw Score Interval	Frequency	Proportion
264.0-250.2	1	.0345
250.2-236.4	1	.0345
236.4-222.6	1	.0345
222.6-208.8	6	.2069
208.8-195.0	6	.2069
195.0-181.2	7	.2414
181.2-167.4	3	.1034
167.4-153.6	2	.0690
153.6-139.8	1	.0345
139.8-126.0	1	.0345

Mean Value	195.1379
Standard Deviation	27.9179
Median	196.1500
Range	138.0000
N	29

Table 11

Basic Descriptive Statistics for the Personality
Needs Perception Grouped Protocols:
IMPULSE CONTROL--NEEDS

Raw Score Interval	Frequency	Proportion
210.0-196.5	1	.0345
196.5-183.0	0	0
183.0-169.5	0	0
169.5-156.0	0	0
156.0-142.5	1	.0345
142.5-129.0	5	.1724
129.0-115.5	4	.1379
115.5-102.0	7	.2414
102.0- 88.5	4	.1379
88.5- 75.0	7	.2414

Mean Value	111.3793
Standard Deviation	28.6436
Median	108.7500
Range	135.0000
N	29

Table 12

Basic Descriptive Statistics for the Environmental
Force Perception Grouped Protocols:
IMPULSE CONTROL--FORCE

Raw Score Interval	Frequency	Proportion
158.0-150.8	2	.0690
150.8-143.6	3	.1034
143.6-136.4	2	.0690
136.4-129.2	6	.2069
129.2-122.0	1	.0345
122.0-114.8	7	.2414
114.8-107.6	4	.1379
107.6-100.4	1	.0345
100.4- 93.2	0	0
93.2- 86.0	3	.1034

Mean Value	123.8966
Standard Deviation	19.0382
Median	121.4857
Range	72.0000
N	29

Table 13

Basic Descriptive Statistics for the Personality
Needs Perception Grouped Protocols:
CLOSENESS--NEEDS

Raw Score Interval	Frequency	Proportion
210.0-194.9	1	.0345
194.9-179.8	0	0
179.8-164.7	3	.1034
164.7-149.6	0	0
149.6-134.5	4	.1379
134.5-119.4	9	.3103
119.4-104.3	4	.1379
104.3- 89.2	3	.1034
89.2- 74.1	3	.1034
74.1- 59.0	2	.0690

Mean Value	124.1379
Standard Deviation	32.6712
Median	123.5944
Range	151.0000
N	29

Table 14

Basic Descriptive Statistics for the Environmental
Force Perception Grouped Protocols:
CLOSENESS--FORCE

Raw Score Interval	Frequency	Proportion
191.0-178.0	1	.0345
178.0-165.0	1	.0345
165.0-152.0	5	.1724
152.0-139.0	4	.1379
139.0-126.0	6	.2069
126.0-113.0	6	.2069
113.0-100.0	2	.0690
100.0- 87.0	3	.1034
87.0- 74.0	0	0
74.0- 61.0	1	.0345

Mean Value   131.4138
Standard Deviation   27.9279
Median   131.4167
Range   130.0000
N   29

Table 15

Basic Descriptive Statistics for the Personality
Needs Perception Grouped Protocols:
ACHIEVEMENT STANDARDS--NEEDS

Raw Score Interval	Frequency	Proportion
290.0-278.4	1	.0345
278.4-266.8	1	.0345
266.8-255.2	9	.3103
255.2-243.6	7	.2414
243.6-232.0	5	.1724
232.0-220.4	2	.0690
220.4-208.8	2	.0690
208.8-197.2	0	0
197.2-185.6	1	.0345
185.6-174.0	1	.0345

Mean Value	244.4483
Standard Deviation	24.4023
Median	249.4000
Range	116.0000
N	29

Table 16

Basic Descriptive Statistics for the Environmental
Force Perception Protocols:
ACHIEVEMENT STANDARDS--FORCE

Raw Score Interval	Frequency	Proportion
278.0-272.4	2	.0690
272.4-266.8	6	.2069
266.8-261.2	2	.0690
261.2-255.6	2	.0690
255.6-250.0	6	.2069
250.0-244.4	3	.1034
244.4-238.8	2	.0690
238.8-233.2	2	.0690
233.2-227.6	2	.0690
227.6-222.0	2	.0690

Mean Value	252.6552
Standard Deviation	15.0126
Median	253.2667
Range	56.0000
N	29

Table 17

Basic Descriptive Statistics for the Personality
Needs Perception Grouped Protocols:
PERSONAL DIGNITY--NEEDS

Raw Score Interval	Frequency	Proportion
142.0-134.2	1	.0345
134.2-126.4	0	0
126.4-118.6	0	0
118.6-110.8	2	.0690
110.8-103.0	3	.1034
103.0- 95.2	4	.1379
95.2- 87.4	5	.1724
87.4- 79.6	7	.2414
79.6- 71.8	4	.1379
71.8- 64.0	3	.1034

Mean Value	90.2759
Standard Deviation	16.7138
Median	88.1800
Range	78.0000
N	29

Table 18

Basic Descriptive Statistics for the Environmental
Force Perception Grouped Protocols:
PERSONAL DIGNITY--FORCE

Raw Score Interval	Frequency	Proportion
129.0-121.8	1	.0345
121.8-114.6	3	.1034
114.6-107.4	3	.1034
107.4-100.2	5	.1724
100.2- 93.0	9	.3103
93.0- 85.8	4	.1379
85.8- 78.6	1	.0345
78.6- 71.4	1	.0345
71.4- 64.2	0	0
64.2- 57.0	2	.0690

Mean Value	97.6897
Standard Deviation	15.1825
Median	98.2000
Range	72.0000
N	29

Table 19

Basic Descriptive Statistics for the Personality
Needs Perception Grouped Protocols:
INTELLECTUAL CLIMATE--NEEDS

Raw Score Interval	Frequency	Proportion
292.0-271.9	2	.0690
271.9-251.8	4	.1379
251.8-231.7	4	.1379
231.7-211.6	0	0
211.6-191.5	11	.3793
191.5-171.4	0	0
171.4-151.3	2	.0690
151.3-131.2	2	.0690
131.2-111.1	3	.1034
111.1- 91.0	1	.0345

Mean Value	204.1034
Standard Deviation	53.4144
Median	203.3773
Range	201.0000
N	29

Table 20

Basic Descriptive Statistics for the Environmental
Force Perception Grouped Protocols:
INTELLECTUAL CLIMATE--FORCE

Raw Score Interval	Frequency	Proportion
265.0-250.1	3	.1034
250.1-235.2	1	.0345
235.2-220.3	2	.0690
220.3-205.4	3	.1034
205.4-190.5	4	.1379
190.5-175.6	7	.2414
175.6-160.7	3	.1034
160.7-145.8	2	.0690
145.8-130.9	1	.0345
130.9-116.0	3	.1034

Mean Value	188.5172
Standard Deviation	40.4436
Median	187.3071
Range	149.0000
N	29

Table 21

Basic Descriptive Statistics for the Mach Scale

Raw Score Interval	Frequency	Proportion
88.0-83.2	2	.0690
83.2-78.4	2	.0690
78.4-73.6	2	.0690
73.6-68.8	1	.0345
68.8-64.0	6	.2069
64.0-59.2	1	.0345
59.2-54.4	7	.2414
54.4-49.6	2	.0690
49.6-44.8	4	.1379
44.8-40.0	2	.0690

Mean Value	61.8621
Standard Deviation	12.8166
Median	58.8571
Range	48.0000
N	29

Table 22

Basic Descriptive Statistics for the
Jesness Inventory Subscale:
SOCIAL MALADJUSTMENT

Raw Score Interval	Frequency	Proportion
41.0-38.8	6	.2069
38.8-36.6	2	.0345
36.6-34.4	3	.1034
34.4-32.2	3	.1034
32.2-30.0	5	.1724
30.0-27.8	3	.1034
27.8-25.6	3	.1034
25.6-23.4	3	.1034
23.4-21.2	1	.0345
21.2-19.0	1	.0345

Mean Value	31.5862
Standard Deviation	5.8890
Median	31.5400
Range	41.0000
N	29

Table 23

Basic Descriptive Statistics for the
Jesness Inventory Subscale:
VALUE ORIENTATION

Raw Score Interval	Frequency	Proportion
32.0-30.1	2	.0690
30.1-28.2	2	.0690
28.2-26.3	3	.1034
26.3-24.4	5	.1724
24.4-22.5	3	.1034
22.5-20.6	3	.1034
20.6-18.7	4	.1379
18.7-16.8	3	.1034
16.8-14.9	1	.0345
14.9-13.0	3	.1034

Mean Value	22.4828
Standard Deviation	5.3627
Median	22.8167
Range	19.0000
N	29

Table 24

Basic Descriptive Statistics for the
Jesness Inventory Subscale:
IMMATURITY

Raw Score Interval	Frequency	Proportion
27.0-25.6	1	.0345
25.6-24.2	0	0
24.2-22.8	8	.2759
22.8-21.4	2	.0690
21.4-20.0	4	.1379
20.0-18.6	5	.1724
18.6-17.2	3	.1034
17.2-15.8	5	.1724
15.8-14.4	0	0
14.4-13.0	1	.0345

Mean Value	20.2759
Standard Deviation	3.2171
Median	20.1750
Range	14.0000
N	29

Table 25

Basic Descriptive Statistics for the
Jesness Inventory Subscale:
AUTISM

Raw Score Interval	Frequency	Proportion
20.0-18.4	3	.1034
18.4-16.8	1	.0345
16.8-15.2	2	.0690
15.2-13.6	3	.1034
13.6-12.0	7	.2414
12.0-10.4	4	.1379
10.4- 8.8	2	.0690
8.8- 7.2	3	.1034
7.2- 5.6	2	.0690
5.6- 4.0	2	.0690

Mean Value	12.0690
Standard Deviation	4.1570
Median	12.3429
Range	16.0000
N	29

Table 26

Basic Descriptive Statistics for the
Jesness Inventory Subscale:
ALIENATION

Raw Score Interval	Frequency	Proportion
23.0-21.8	5	.1724
21.8-20.6	3	.1034
20.6-19.4	1	.0345
19.4-18.2	3	.1034
18.2-17.0	4	.1379
17.0-15.8	2	.0690
15.8-14.6	4	.1379
14.6-13.4	1	.0345
13.4-12.2	2	.0690
12.2-11.0	4	.1379

Mean Value	17.2759
Standard Deviation	3.8163
Median	17.4500
Range	12.0000
N	29

Table 27

Basic Descriptive Statistics for the
Jesness Inventory Subscale:
MANIFEST AGGRESSION

Raw Score Interval	Frequency	Proportion
28.0-26.3	3	.1034
26.3-24.6	4	.1379
24.6-22.9	2	.0690
22.9-21.2	3	.1034
21.2-19.5	3	.1034
19.5-17.8	5	.1724
17.8-16.1	2	.0690
16.1-14.4	0	0
14.4-12.7	4	.1379
12.7-11.0	3	.1034

Mean Value	19.7931
Standard Deviation	5.1574
Median	19.7833
Range	17.0000
N	29

Table 28

Basic Descriptive Statistics for the
Jesness Inventory Subscale:
WITHDRAWAL

Raw Score Interval	Frequency	Proportion
23.0-21.9	4	.1379
21.9-20.8	1	.0345
20.8-19.7	2	.0690
19.7-18.6	4	.1379
18.6-17.5	3	.1034
17.5-16.4	0	0
16.4-15.3	5	.1724
15.3-14.2	3	.1034
14.2-13.1	2	.0690
13.1-12.0	5	.1724

Mean Value	17.0690
Standard Deviation	3.3051
Median	16.2900
Range	11.0000
N	29

Table 29

Basic Descriptive Statistics for the
Jesness Inventory Subscale:
SOCIAL ANXIETY

Raw Score Interval	Frequency	Proportion
24.0-22.6	4	.1379
22.6-21.2	0	0
21.2-19.8	2	.0690
19.8-18.4	5	.1724
18.4-17.0	4	.1379
17.0-15.6	3	.1034
15.6-14.2	4	.1379
14.2-12.8	2	.0690
12.8-11.4	1	.0345
11.4-10.0	4	.1374

Mean Value	16.8966
Standard Deviation	4.0386
Median	17.1750
Range	14.0000
N	29

Table 30

Basic Descriptive Statistics for the
Jesness Inventory Subscale:
REPRESSION

Raw Score Interval	Frequency	Proportion
12.0-11.0	2	.0690
11.0-10.0	4	.1379
10.0- 9.0	2	.0690
9.0- 8.0	3	.1034
8.0- 7.0	4	.1379
7.0- 6.0	4	.1379
6.0- 5.0	3	.1034
5.0- 4.0	5	.1724
4.0- 3.0	1	.0345
3.0- 2.0	1	.0345

Mean Value   6.7931
Standard Deviation   2.5964
Median   7.1250
Range   10.0000
N   29

Table 31

Basic Descriptive Statistics for the
Jesness Inventory Subscale:
DENIAL

Raw Score Interval	Frequency	Proportion
20.0-19.0	5	.1724
19.0-18.0	3	.1034
17.0-16.0	4	.1379
16.0-15.0	4	.1379
15.0-14.0	4	.1379
14.0-13.0	2	.0690
13.0-12.0	2	.0690
12.0-11.0	1	.0345
11.0-10.0	2	.0690

Mean Value	15.3793
Standard Deviation	2.8587
Median	15.8750
Range	10.0000
N	29

Table 32

Basic Descriptive Statistics for the Jesness
Inventory Combined Subscale:
ASOCIAL INDEX

Raw Score Interval	Frequency	Proportion
32.0-29.0	2	.0690
29.0-26.0	3	.1034
26.0-23.0	1	.0345
23.0-20.0	8	.2759
20.0-17.0	3	.1034
17.0-14.0	5	.1724
14.0-11.0	1	.0345
11.0- 8.0	3	.1034
8.0- 5.0	2	.0690
5.0- 2.0	1	.0345

Mean Value	17.6552
Standard Deviation	7.5132
Median	19.0000
Range	32.0000
N	29

Table 33

Means, Standard Deviations, Medians, and Ranges of Distributions of
Grouped Protocols for the 29 Subjects, to Nearest Whole Number

Variable	Mean	SD	Md	Range	Possible	Mean % of Possible
01 Group Life--Needs	206	52	203	165	300	.69
02 Group Life--Force	214	31	217	128	300	.71
03 Order--Needs	190	36	189	145	275	.69
04 Order--Force	195	28	196	138	275	.70
05 Impulse Control--Needs	111	29	109	135	175	.63
06 Impulse Control--Force	124	19	122	72	175	.71
07 Closeness--Needs	124	33	124	151	200	.62
08 Closeness--Force	131	28	131	130	200	.66
09 Achievement Standards--Needs	245	24	249	116	350	.70
10 Achievement Standards--Force	253	15	253	56	350	.72
11 Personal Dignity--Needs	90	17	88	78	125	.72
12 Personal Dignity--Force	98	15	98	72	125	.78
13 Intellectual Climate--Needs	204	53	203	201	300	.68
14 Intellectual Climate--Force	189	40	187	149	300	.63

Table 34

Means, Standard Deviations, Medians, and Ranges of Distributions of Scale
Variables for the 29 Subjects, to Nearest Whole Number

Variable	Mean	SD	Md	Range	Possible	Mean % of Possible
15 Mach Scale	62	13	59	48	100	.62
Jesness Inventory:						
16 Social Maladjustment	32	6	32	41	55	.58
17 Value Orientation	23	5	23	19	39	.59
18 Immaturity	20	3	20	14	24	.83
19 Autism	12	4	12	16	28	.43
20 Alienation	17	4	18	12	26	.65
21 Manifest Aggression	20	5	20	17	31	.65
22 Withdrawal	17	3	16	11	24	.71
23 Social Anxiety	17	4	17	14	24	.71
24 Repression	7	3	7	10	15	.47
25 Denial	15	3	16	10	20	.75
26 Asocial Index	18	8	19	32	36	.50

Table 35

School Sentiment Index Means Showing Favorable Attitude
Toward School and its Various Dimensions

Sub-Scale	Mean Response	Response Total Possible	% Response to Favorable Statements
I. Attitudes Toward Teacher			
A. Mode of Instruction	8.0	13.0	.61
B. Authority and Control	7.0	13.0	.53
C. Inter-Personal Relationship	3.0	8.0	.37
II. Attitudes Toward Learning	2.7	6.0	.45
III. Attitudes Toward Social Structure and Climate	6.6	15.0	.44
IV. Attitudes Toward Peers	5.6	9.0	.62
V. General Attitude Toward School	3.7	9.0	.41
Total	35.6	73.0	

Table 36

Intercorrelation Matrix of Selected Variables Used in Factor Analysis

Variable	1	5	7	13	14
1	1.0	-.4014	.38677	.00429	.00083
5		1.0	-.39600	-.41032	-.08660
7			1.0	.47980	-.12832
13				1.0	.71296
14					1.0

For 28 d.f., correlation coefficient (two-tailed) significant at: .01 = .463
.05 = .361
.10 = .306

Variable Code:
 1 = Group Life--Needs
 5 = Impulse Control--Needs
 7 = Closeness--Needs
13 = Intellectual Climate--Needs
14 = Intellectual Climate--Force

Table 37

Factor Matrix Using Principal Factor With
Iterations Before Varimax Rotation

Variable	Communality	Factor	Eigenvalue	% of Var	Cum %
01 Group Life--Needs	.20574	1	2.07105	18.8	18.8
05 Impulse Control--Needs	.29650	2	1.78048	16.2	35.0
07 Closeness--Needs	.29650	3	1.52820	13.9	48.9
13 Intellectual Climate--Needs	.26387	4	1.30043	11.8	60.7
14 Intellectual Climate--Force	.30748	5	1.07908	9.8	70.5

For 28 d.f., correlation coefficient (two-tailed) significant at: .01 = .463
                                                                   .05 = .361
                                                                   .10 = .306

Table 38

Factor Matrix Using Principal Factor With Iterations
After Varimax Rotation

Variable:	F_1	F_2	F_3
01 Group Life--Needs	-.09908	.11632	.12055
05 Impulse Control--Needs	.40888	-.05511	.66042
07 Closeness--Needs	.56833	-.57457	.24278
13 Intellectual Climate--Needs	.49155	-.10116	-.16143
14 Intellectual Climate--Force	-.21191	.38944	.41918

For 28 d.f., correlation coefficient (two-tailed) significant at: .01 = .463
.05 = .361
.10 = .306

F_1 = Factor 1, Unsocialized Aggression
F_2 = Social Approval Anxiety
F_3 = Unsocialized Withdrawal

Table 39

Factor Matrix Using Principal Factor With Iterations
After Varimax Rotation

Variable	Communality	Factor	Eigenvalue	% of Var	Cum %
01 Group Life--Needs	.12792	1	1.75278	29.7	29.7
05 Impulse Control--Needs	.77069	2	1.50788	25.5	55.2
07 Closeness--Needs	.95502	3	1.17227	19.8	75.0

F_1 = Factor 1, Unsocialized Aggression
F_2 = Factor 2, Social Approval Anxiety
F_3 = Factor 3, Unsocialized Withdrawal

APPENDIX B

THE JESNESS INVENTORY

1. When you're in trouble, it's best to keep quiet about it.

2. It makes me nervous to sit still very long.

3. I get into a lot of fights.

4. I worry too much about doing the right things.

5. I always like to hang around with the same bunch of friends.

6. I am smarter than most boys I know.

7. It makes me mad that some crooks get off free.

8. My feelings get hurt easily when I am scolded or criticized.

9. Most police will try to help you.

10. Sometimes I feel like I want to beat up on somebody.

11. When somebody orders me to do something I usually feel like doing just the opposite.

12. Most people will cheat a little in order to make some money.

13. A person never knows when he will get mad, or have trouble.

14. If the police don't like you, they will try to get you for anything.

15. A person is better off if he doesn't trust people.

16. Sometimes I wish I could quit school.

17. Sometimes I feel like I don't really have a home.

18. People always seem to favor a certain boy or girl ahead of the others.

19. I never lie.

20. Most police are pretty dumb.

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21. I worry about what other people think of me.

22. A person like me fights first and asks questions later.

23. I have very strange and funny thoughts in my mind.

24. It's hard to have fun unless you're with your buddies.

25. I get nervous when I ask someone to do me a favor.

26. If I could, I'd just as soon quit school right now.

27. Sometimes it's fun to steal something.

28. I notice my heart beats very fast when people keep asking me questions.

29. When I get really mad, I'll do just about anything.

30. Women seem more friendly and happy than men.

31. It is easy for me to talk to strangers.

32. Police stick their noses into a lot of things that are none of their business.

33. A lot of fathers don't seem to care if they hurt your feelings.

34. I am secretly afraid of a lot of things.

35. I hardly ever get a fair break.

36. Others seem to do things easier than I can.

37. I seem to "blow up" a lot over little things that really don't matter very much.

38. Only a baby cries when he is hurt.

39. Most adults are really very nice.

40. Winning a fight is about the best fun there is.

41. A lot of strange things happen to me.

42. I have all the friends I need.

43. I get a kick out of getting some people angry and all shook up.

44. Nowadays they make it a big crime to get into a little mischief.

45. It would be fun to work in a carnival or playland.

46. My father is too busy to worry much about me, or spend much time with me.

47. Sometimes I feel dizzy for no reason.

48. Sometimes people treat grown boys and girls like they were babies.

49. It makes me feel bad to be bawled out or criticized.

50. When things go wrong, there isn't much you can do about it.

51. If someone in your family gets into trouble it's better for you to stick together than to tell the police.

52. I can't seem to keep my mind on anything.

53. It always seems like something bad happens when I try to be good.

54. Most men are bossy and mean.

55. I don't care if people like me or not.

56. It seems like wherever I am I'd rather be somewhere else.

57. Once in a while I get angry.

58. I think that someone who is fourteen years old is old enough to smoke.

59. Most parents seem to be too strict.

60. If somebody does something mean to me, I try to get back at them.

61. You can hardly ever believe what parents tell you.

62. I have a real mean streak in me.

63. I don't think I will ever be a success or amount to much.

64. Police usually treat you dirty.

65. Most of the time I can't seem to find anything to do.

66. It's hard for me to show people how I feel about them.

67. I often feel lonesome and sad.

68. I don't mind it when I'm teased and made fun of.

69. Nothing much ever happens.

70. A lot of times I do things that my folks tell me I shouldn't do.

71. It's fun to get the police to chase you.

72. A lot of people say bad things about me behind my back.

73. I wish I wasn't so shy and bashful.

74. It seems like people keep expecting me to get into some kind of trouble.

75. I like everyone I know.

76. Other people are happier than I am.

77. If I could only have a car at home, things would be all right.

78. I really don't have very many problems to worry about.

79. Being called a sissy is about the worst thing I know.

80. When I'm alone I hear strange things.

81. If a bunch of you are in trouble, you should stick together on a story.

82. I have a lot of headaches.

83. Teachers always have favorites who can get away with anything.

84. Every day is full of things that keep me interested.

85. I would rather be alone than with others.

86. I can't seem to take much kidding or teasing.

87. I don't seem to care enough about what happens to me.

88. I never get mad at anybody.

89. I keep wishing something exciting would happen.

90. Policemen and judges will tell you one thing and do another.

91. It is hard for me to talk to my parents about my troubles.

92. I am liked by everybody who knows me.

93. It seems easier for me to act bad than to show my good feelings.

94. Too many people like to act big and tough.

95. I am always nice to everyone.

96. It takes someone pretty smart to get ahead of me.

97. Talking over your troubles with an older person seems like "kid stuff."

98. It doesn't seem wrong to steal from crooked store owners.

99. I would never back down from a fight.

100. I have a lot of bad things on my mind that people don't know about.

101. I will do a lot of crazy things if somebody dares me.

102. Having to talk in front of the class makes me afraid.

103. Parents are always nagging and picking on young people.

104. Some day I would like to drive a race car.

105. I sit and daydream more than I should.

106. I feel sick to my stomach every once in a while.

107. At home I am punished too much for things I don't do.

108. My life at home is always happy.

109. At night when I have nothing to do I like to go out and find a little excitement.

110. A lot of women seem bossy and mean.

111. Nobody seems to understand me or how I feel.

112. Most people get into trouble because of bad luck.

113. I am always kind.

114. Talking with my parents is just as easy as talking with others my own age.

115. Sometimes I don't like school.

116. If you want to get ahead, you can't worry too much about the other guy.

117. At times I feel like blowing up over little things.

118. I don't mind lying if I'm in trouble.

119. A boy who won't fight is just no good.

120. To get along all right nowadays, a person has to be pretty tough.

121. I worry most of the time.

122. If you're not in with the gang, you may be in for some real trouble.

123. I really think I'm better looking than most others my age.

124. My mind is full of bad thoughts.

125. When you're in trouble, nobody much cares to help you.

126. Sometimes when my folks tell me not to do something, I go ahead and do it anyway.

127. It's best not to think about your problems.

128. I hardly ever feel excited or thrilled.

129. When something bad happens, I almost always blame myself instead of the other person.

130. The people who run things are usually against me.

131. I have too much trouble making up my mind.

132. Most people who act so perfect are just putting on a big front.

133. When luck is against you, there isn't much you can do about it.

134. I get tired easily.

135. I think my mother should be stricter than she is about a lot of things.

136. I like to read and study.

137. I feel alone even when there are other people around me.

138. I'm good at out-smarting others.

139. I always hate it when I have to ask someone for a favor.

140. I often have trouble getting my breath.

141. I worry about how well I'm doing in school.

142. For my size, I'm really pretty tough.

143. People hardly ever give me a fair chance.

144. I like to daydream more than anything else.

145. The only way to really settle anything is to fight it out.

146. I am nervous.

147. Stealing isn't so bad if it's from a rich person.

148. My parents seem to think I might end up being a bum.

149. Things don't seem real to me.

150. I am afraid of the dark.

151. Families argue too much.

152. Sometimes it seems like I'd rather get into trouble, instead of trying to stay away from it.

153. I think there is something wrong with my mind.

154. I get angry very quickly.

155. When I get into trouble, it's usually my own fault.

APPENDIX C

THE MACHIAVELLIANISM SCALE

1. Never tell anyone why you do something unless it will help you.

2. Most people are good and kind.

3. The best way to get along with people is to tell them things that make them happy.

4. You should do something only when you are sure it is right.

5. It is smartest to believe that all people will be mean if they have a chance.

6. You should always be honest, no matter what.

7. Most people won't work hard unless you make them do it.

8. Sometimes you have to hurt other people to get what you want.

9. It is better to be ordinary and honest than to be famous and dishonest.

10. It is better to tell someone why you want him to help you than to make up a good story to get him to do it.

11. Successful people are mostly honest and good.

12. Anyone who completely trusts anyone else is asking for trouble.

13. A criminal is just like other people, except that he is stupid enough to get caught.

14. Most people are brave.

15. It is smart to be nice to important people, even if you don't really like them.

16. It is possible to be good in every way.

17. Most people cannot be easily fooled.

18. Sometimes you have to cheat a little to get what you want.

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19. It is never right to tell a lie.

20. It hurts more to lose money than to lose a friend.

APPENDIX D

PERSONALITY NEEDS PERCEPTION INDEX

1. Taking the blame for something done by my friend.

2. Trying to do difficult things.

3. Hiding a failure from others.

4. Having other people let me alone.

5. Getting what is coming to me even if I have to fight for it.

6. Changing my likes and dislikes quite often.

7. Making plans for both work and play during the day.

8. Working twice as hard on a problem when I'm not sure I know the answer.

9. Seeing someone make fun of a person who deserves it.

10. Talking a group into doing something my way.

11. Being a newspaperman who crusades for a better town.

12. Listening to music that makes me feel very sad.

13. Participating in a very active sport.

14. Keeping in the background when I'm with noisy people.

15. Seeing how long I can go without food or sleep.

16. Diving off the high-dive at a swimming pool.

17. Learning about the cause of social and political problems.

18. Doing something crazy sometimes just for fun.

19. Thinking what I would do if I could live my life over.

20. Taking care of or feeding a stray dog or cat.

21. Being very careful on Friday the 13th.

22. Washing and polishing things like cars or furniture.

23. Making work go faster by thinking about fun I'll have later.

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24. Being good at knitting, carpentry, or other skills.

25. Understanding myself better.

26. Studying plants and insects with a microscope.

27. Holding something very soft and warm against my skin.

28. Talking about how it feels to be in love.

29. Belonging to a group that wants to hear about my problems.

30. Thinking very hard about a problem.

31. Suffering for someone I love.

32. Working for someone who accepts only my best efforts.

33. Defending myself against criticism.

34. Going to the park with a crowd.

35. Shocking people by saying things they do not approve of.

36. Getting up and going to bed at the same times every day.

37. Planning a reading program for myself.

38. Having to do something over which I failed to do correctly.

39. Doing what people tell me to do the very best I can.

40. Having other people depend on me for ideas and opinions.

41. Being important in politics during a time of crisis.

42. Crying at a funeral or a wedding.

43. Avoiding work which requires a lot of concentration.

44. Wearing clothes which attract a lot of attention.

45. Thinking about what I could do that would make me famous.

46. Playing rough games in which someone might get hurt.

47. Reading editorials or watching TV news about social issues.

48. Controlling my emotions rather than acting without thought.

49. Trying out different ways to write my name.

50. Taking care of someone who is ill.

51. Carrying a good-luck charm like a four-leaf clover.

52. Marking my calendar for things I have to do.

53. Spending most of my extra money for fun things to do.

54. Learning how to repair a car, or a sewing machine.

55. Thinking about crime, drug addiction, or insanity.

56. Going to scientific exhibits.

57. Eating so much that I can't take another bite.

58. Reading about the love affairs of movie stars.

59. Working for someone who always tells me how to do things.

60. Finding the meaning of hard or unusual words.

61. Being polite no matter what happens.

62. Picking out a hard task for myself and doing it.

63. Admitting when I'm wrong.

64. Leading an active social life.

65. Doing something that might be criticized by others.

66. Rearranging the furniture in the place where I live.

67. Putting off something I don't feel like doing.

68. Having to work very hard for something I want.

69. Listening to a successful person tell of his success.

70. Getting my friends to do what I want to do.

71. Taking an active part in social and political changes.

72. Avoiding excitement or emotional tension.

73. Staying up all night when I'm doing something interesting.

74. Speaking at a group meeting.

75. Thinking that I would like to be President of the United States.

76. Crossing streets only at the corner and with the green light.

77. Studying the music of famous composers like Beethoven.

78. Being in a situation which requires quick decision or action.

79. Stopping to look at myself in a mirror each time I pass one.

80. Helping to collect money for poor and needy people.

81. Paying no attention to superstitions.

82. Keeping accurate records of the money I spend.

83. Dropping out of a group that spends most of its time playing around or having parties.

84. Helping direct United Givers or Red Cross fund drives.

85. Thinking about life on other planets.

86. Reading science articles about experiments and inventions.

87. Chewing on pencils, rubber bands, paper clips.

88. Talking about who is in love with whom.

89. Being alone a lot and free from family and friends.

90. Spending my time thinking about complicated problems and discussing them.

91. Figuring out how it was my fault for an argument.

92. Competing with others for a prize or a goal.

93. Being ready with an excuse when I am criticized.

94. Meeting a lot of people.

95. Arguing with a teacher.

96. Being the same in my behavior all the time.

97. Going to a party where everything is all planned out.

98. Doing a job under pressure.

99. Going along with a decision made by a supervisor or leader rather than starting an argument.

100. Organizing groups to vote in a certain way in elections.

101. Living a life that is full of adventure and drama.

102. Having someone for a friend who is very emotional.

103. Sleeping long hours every night to get lots of rest.

104. Playing music, dancing, or acting for a large group.

105. Working until I'm exhausted to see how much I can take.

106. Riding a fast and steep roller coaster.

107. Seeing how the problems of today compare with long ago.

108. Doing whatever I'm in the mood to do.

109. Daydreaming about what I would do if I could live any way I wanted.

110. Comforting someone who is feeling low.

111. Avoiding things that might bring bad luck.

112. Folding my clothes neatly before going to bed.

113. Getting as much as I can out of life even if I have to neglect or put off more serious things.

114. Learning how to make things like clothes or furniture.

115. Trying to figure out why people act the way they do.

116. Doing scientific experiments to test a theory.

117. Sleeping in a very soft bed.

118. Seeing love stories in the movies or on TV.

119. Having some of my family help me when I'm in trouble.

120. Working cross-word puzzles, figuring moves in checkers.

121. Admitting defeat.

122. Taking examinations and tests.

123. Being corrected when I'm in the wrong.

124. Belonging to a club.

125. Teasing someone who thinks he or she is the greatest.

126. Moving to a new neighborhood.

127. Finishing something I've started even if it is no longer fun.

128. Staying away from activities that I don't do well.

129. Following directions.

130. Being able to hypnotize people.

131. Being active in community or neighborhood affairs.

132. Going on an emotional binge.

133. Walking instead of riding wherever I go.

134. Doing something which will cause a disturbance.

135. Thinking about being a famous military hero.

136. Standing on the roof of a tall building.

137. Studying different types of governments and countries.

138. Doing things on the spur of the moment.

139. Having lots of time to take care of my hair, face, clothing.

140. Having people come to me with their problems.

141. Being extra careful after a black cat crosses in front of me.

142. Recopying notes in order to make them neat.

143. Finishing some work even though it means missing a party.

144. Working with tools, electrical equipment, appliances.

145. Thinking about what the end of the world might be like.

146. Studying the stars and planets and learning their names.

147. Listening to the rain on the roof, wind in the trees.

148. Listening to my friends talk about their love-life.

149. Having an older person who likes to give me guidance.

150. Being a philosopher, scientist, or teacher.

APPENDIX E

THE ENVIRONMENTAL FORCE PERCEPTION INDEX

1. Teachers are very interested in student ideas about school.

2. There is a lot of competition for grades in this school.

3. Grades are read out loud in class so that everybody knows who got the high and low marks.

4. There are very few clubs and student group activities to which students may belong.

5. School property is seldom damaged by students.

6. The students here come from many different kinds of homes.

7. Most classes are very well organized and planned so that progress is smooth from week to week.

8. Teachers often try to get students to speak up freely and openly in class.

9. Teachers go out of their way to make sure that students address them with respect.

10. In this school, there is a certain group of students who are always the leaders.

11. Most teachers are not very interested in what goes on at City Hall.

12. Students here are expected to have ideas and to do something about them.

13. Classroom discussions are often very exciting with a lot of student participation.

14. There is a lot of competition here for the student parts in plays.

15. In English classes, students are encouraged to be imaginative in what they write.

16. A great many students are involved in noon-time sports and athletic teams.

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17. Many students and teachers are involved with outside activities in music, art, and writing.

18. In most cases, there is very little joking and laughing.

19. School dances are not held very often at this school.

20. Many 8th and 9th graders help new students get used to school life here.

21. No one needs to be afraid of expressing an opinion that is not popular in this school.

22. Students usually do not change seats in their classroom.

23. Students really get excited at an athletic contest.

24. It is important here to be a member in the right group.

25. Many students are interested in books and movies about psychological problems people have.

26. The school library is very well supplied with books and magazines about science.

27. Students sometimes get a chance to hear music in the cafeteria or at break.

28. There is a lot of dating among the students during the week nights.

29. Teachers here are genuinely concerned about how the students feel.

30. There is a lot of talk here about preparing for college.

31. You need permission to do anything around here.

32. Students manage to pass their classes even if they don't work hard during the year.

33. In PE classes, everyone has to do the same thing no matter how good or bad they are at it.

34. There is a lot of school spirit here.

35. In this school most people don't walk around with a "chip" on their shoulder looking for a fight.

36. Most courses are changed all around from year to year.

37. Teachers clearly explain what students can get out of their classes and why the courses are important.

38. When students think a teacher's decision is unfair, they try to get it changed.

39. Most students look up to their teachers and admire them.

40. Student elections produce a lot of interest and excitement.

41. The daily newspaper is not very often read by people around here.

42. When teachers are disciplining students the teachers are usually upset.

43. Students put a lot of energy into everything they do.

44. When students do a project or put on a show everybody knows about it.

45. What a person wants to do in later life is a favorite topic to discuss around here.

46. Class rivalry sometimes gets a little rough.

47. This school offers many opportunities for students to get to know or understand important works of art, music, and drama.

48. Students are always coming up with new styles and fads, or expressions.

49. Students here take a great deal of pride in their appearance.

50. There are collections for the needy at Christmas and at other times.

51. Everyone has the opportunity to get good marks here because the tests are marked very fairly.

52. Many teachers get very upset if students happen to be a little bit late for class.

53. There is a lot of student enthusiasm and support for big school events.

54. Students try hard to be good in sports, as a way to get recognition.

55. Many students enjoy reading and talking about science fiction.

56. When students get together they seldom talk about science.

57. There is practically no one here who would feel comfortable participating in modern dance or ballet.

58. Boys and girls seldom sit at separate tables in the school cafeteria.

59. Outside of class, most teachers are friendly and find the time to talk with students.

60. Quite often students will get together and talk about things like what they have learned in class.

61. Students are not usually kept waiting when the office sends for them.

62. Most teachers give a lot of homework.

63. Once you've made a mistake in this school, it is hard to live it down.

64. It is easy to make friends in this school because of the many things which are always going on.

65. Most students can easily keep out of trouble in this school.

66. Many of the students here have lived in different states.

67. A lot of students who get just passing grades at midterm really make an effort to earn a higher grade by the end of the semester.

68. Students are often expected to work at home on problems which they could not solve in class.

69. Students don't very often give opinions different from their teachers.

70. Students are expected to report any violation of rules and regulations to their teacher or to the principal.

71. There are some pretty strong feelings expressed here about political parties.

72. The way people feel around here is always pretty obvious.

73. Few students here would ever work or play to point of being completely worn out.

74. Teachers help students to develop skills in managing the work of other students.

75. Teachers here warn students to be "down to earth" in planning for the future.

76. Fire-drills are held regularly here.

77. Few students would be interested in an educational film about writers and poets.

78. Students frequently do things on the spur of the moment.

79. Looking and acting "right" is very important to teachers and students here.

80. Students seldom send their teachers cards or little gifts on special occasions.

81. The principal and the teachers are usually understanding if a student does something wrong and they will usually give you the benefit of the doubt.

82. Many teachers require students to recopy notes to make them neat.

83. There are lots of dances, parties, and other social activities here.

84. This school offers very few really practical courses.

85. Teachers here like students to use a lot of imagination when they write compositions.

86. Few students would be interested in hearing a talk by a famous scientist.

87. Few student lockers are decorated with pictures, decals, and so forth.

88. Many students here really love dancing.

89. The person who is always trying to "help out" is likely to be regarded as a nuisance.

90. Discussions on serious subjects are not held very often here.

91. The teachers very often make you feel like a little child.

92. Personality, "pull" and bluff get students through many courses.

93. Students are usually made to answer to the principal and the teacher when they have done something wrong.

94. Few students stay around after school for activities.

95. The desks are all cut up from knives and pencils.

96. This school has the same activities year after year.

97. Activities in most student organizations are carefully and clearly planned.

98. Students don't hesitate to express their complaints around here.

99. Students almost always wait to be called on before speaking in class.

100. There are several groups here, and if you're not in one, you're pretty much on your own.

101. Boy-girl relationships here are simple and rarely become really romantic things.

102. Students can get into very hot arguments here, and be the best of friends the next day.

103. There are so many things to do here that students are busy all the time.

104. Most students here would not like to dress-up for a dance or a costume party.

105. Most students are more concerned with the present than with the future.

106. Many students here drive cars.

107. Students seldom read books about political and social problems.

108. Teachers insist that much time be spent in planning activities before doing them.

109. Most students here enjoy such activities as dancing, skating, and tumbling.

110. Students often run errands or do other personal services for the teachers.

111. Students are sometimes punished without knowing the reason for it.

112. At this school, the motto seems to be "a place for everything and everything in its place."

113. Having a good time comes first with most students here.

114. No one here has much interest in history, music, and other such impractical courses.

115. There is little interest in modern art and music.

116. Few students are planning careers in science.

117. Little effort is made in the cafeteria to serve lunches which are good tasting and which look good to the eye.

118. Students here spend a lot of time talking about their boyfriends and girlfriends.

119. Students are encouraged to be on their own and to make up their own minds.

120. A lot of students like to play checkers, chess, and other games.

121. Students are made to take the blame for things whether they did them or not.

122. Not very many students try hard to get on the honor roll.

123. Students have to get up in front of the class to recite no matter how embarrassed they might be.

124. There are many parties or dances given at this school.

125. Lots of kids rip out pages and mark up their school books.

126. New ideas are always being tried out here.

127. Assignments are usually clear so everyone knows what to do.

128. When students do not like a school rule, they really work to get it changed.

129. Teachers refer to other teachers by their first names in the presence of students.

130. Student leaders at this school expect you to go along with what they say.

131. There is no real interest in current events here.

132. Most students don't get very excited about teacher's ideas.

133. Teachers here have little interest in what they are doing.

134. Students in this school like to draw attention to themselves.

135. Going to school here makes students more practical and realistic.

136. The school nurse tries to help you from getting sick.

137. Student groups seldom meet to discuss current social problems or issues.

138. Students often start things without thinking about where they may end.

139. Students who are not neatly dressed are likely to have this called to their attention.

140. There is a lot of interest here in projects for collecting packages of food and clothing to help others.

141. If a student thinks out a report carefully, teachers will give him a good mark, even if they don't agree with him.

142. Most teachers in this school like to have their chalkboards cleaned off after each lesson.

143. New jokes and funny stories get around the school in a hurry.

144. Students may not talk about how much money a family has or what they do for a living, but everyone knows "whose who."

145. Although many students may attend church here, there is little interest in the basic meaning of religion.

146. This school has very good science teachers.

147. Most of the teachers here try to decorate their class-rooms so that the students will find them more pleasant to be in.

148. Boys and girls often get together between classes, during lunch hour, and so forth.

149. Most teachers prefer that students work out their own problems.

150. School spirit seems to be more important than learning at this school.

APPENDIX F

INFORMAL INTEREST INVENTORY

INFORMAL INTEREST INVENTORY

1. Name _____ Date _____

   Address _____ Phone _____

   Date of Birth _____ Age _____

FAMILY

2. With whom do you live: (Check the one that applies)

   Father and Mother _____ Mother only _____ Father and Step-
   mother _____ Father only _____ Guardian _____ Mother and
   Stepfather _____ Other (whom) _____
   Parents divorced--Yes or No _____

3.

Name	Age	Health Good-Poor	Living Yes-No	Place Birth	Grade Completed	Occupation	Where Employed
Father							
Mother							
Stepfather							
Stepmother							
Guardian							

4. Brothers and sisters: (a) Number _____ (b) Ages _____
5. What language is spoken in your home other than English?
   _____
6. Who else lives in your home other than your parents--brothers
   --sisters? _____
7. For what regular home duties are you responsible? _____
   _____
8. How do you get your spending money? _____

SCHOOL

9. What school subjects do you: (List three choices for each)

   Like best?   Like least?   Find easiest?   Find difficult?

   _____   _____   _____   _____

   _____   _____   _____   _____

   _____   _____   _____   _____

10. Do you have a definite place to study at home? Yes ____
    No ____ If yes, where? _____
    If no, where do you study outside of school? _____
11. Are you doing as well in school as you think you can?
    Yes ____ No ____
12. Are you doing as well as your parents expect? Yes ____
    No ____
13. Do you like to read? _____
14. Do you read for pleasure during vacation times? _____
15. Do you have a Public Library Card? _____
16. Do you have a personal library of your own? _____
17. In your opinion, what makes a book interesting? _____
    _____
18. What type of reading do you prefer? (Number answers according to your preference.)

    Magazines_____   Novels_____   Short Stories_____
    Newspapers_____   Poetry_____   Other (Name)_____
    Comic Books_____ Plays_____

19. What type of stories do you prefer to read?

    Adventure_____   History_____   Sports_____
    Romantic_____   Western_____   Autos_____
    Mystery_____   Horror_____   Spy_____
    Science Fiction____ Travel_____   War_____
    Fashion_____   Animal_____   Other (Name)_____

20. Do you read Comic Books? _____ What do you like about them?
    _____
21. What magazines do you receive in your home? _____
    _____
22. What newspapers do you read? _____
23. What sections of the newspapers do you like best?

    News Stories_____   Headlines_____   Advertisements_____
    Feature Stories___   Pictures_____   Theatre_____
    Funnies_____   Editorials_____   Others (Name)_____
    Social News_____   Sports_____   _____

24. How often do you go to the movies? _____
25. What type of movies do you like? (Number answers)

Adventure_____ Drama_____ Comedy_____
Musicals_____   War_____   Murder_____
Western_____   Spy_____   Science Fiction____
Cartoons_____   Love_____   Other (Name)_____
Horror_____

26. Do you have a TV set in your home? _____
27. How many hours of the week do you devote to TV? _____
28. Do you listen to the radio? _____
29. What type of radio programs do you listen to? _____

30. What kind of music do you like to listen to? _____
_____

HOBBIES

31. What are your hobbies? List your favorite hobby first.
(1) _____ (3) _____
(2) _____ (4) _____

32. Which of the following sports would you prefer to partici-
pate in? Mark with a "P." Which would you prefer to
watch? Mark with a "W."

Baseball_____   Tennis_____ Track_____
Basketball_____ Golf_____   Hunting_____
Bowling_____   Skating_____ Skiing_____
Fishing_____   Swimming_____Wrestling_____
Volleyball_____ Football_____Fencing_____
Surfing_____   Soccer_____ Others_____

33. Which of the following school activities would you prefer
to join?

Student Government___ Band_____ Others:
Cheerleaders_____ Choir_____
Debating_____   Drama Group_____ _____
Newspaper_____   Yearbook_____ _____
Literary Magazine____ _____

34. To what teams do you belong? _____
35. What musical instruments do you play? _____
36. What states have you visited? _____
37. Have you ever been outside of the United States? Where?
_____

38. What occupations have you considered for your life work?

   1st choice _____ 2nd choice _____

   3rd choice _____ None _____

39. What occupation do your parents prefer that you enter?
   _____

40. What type of employment have you held? _____
   Present employment? _____
   Hours per week? _____ Salary per week? _____

APPENDIX G

THE SCHOOL SENTIMENT INDEX

THE SCHOOL SENTIMENT INDEX

WRITE: TRUE or UNTRUE

_____ 1. Other students bother me when I'm trying to do my work.

_____ 2. My teachers always tell me when they like my work.

_____ 3. My teachers are interested in things I do outside of school.

_____ 4. Each morning I look forward to coming to school.

_____ 5. This school is like a jail.

_____ 6. In my classes we often get the chance to make decisions together.

_____ 7. I often feel rushed and nervous in school.

_____ 8. My teachers give me work that is too easy.

_____ 9. Other students often get me into trouble in school.

_____ 10. My teachers seldom tell me if my work is good or bad.

_____ 11. My teachers listen to what I have to say.

_____ 12. It is hard for me to stay happy in school.

_____ 13. I follow the rules in school.

_____ 14. There are many different kinds of different activities in school from which I can choose what I would like to do.

_____ 15. When I do something wrong at school I know I'll get a second chance.

_____ 16. My teachers give me work that is too hard.

_____ 17. I often must do what my friends want me to do.

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_____ 18. My teachers try to make school interesting to me.

_____ 19. I try to do my best in school.

_____ 20. My teachers do not care about me.

_____ 21. School gives me a stomach ache.

_____ 22. The principal of my school is friendly toward the students.

_____ 23. I get as many chances to do special jobs in my classes as other students.

_____ 24. My teachers do not give me enough time to finish my work.

_____ 25. The students in my classes are not friendly to me.

_____ 26. In school I have to remember too many facts.

_____ 27. I like to do school work at home in the evenings.

_____ 28. My teachers do not understand me.

_____ 29. I often get headaches in school.

_____ 30. The principal's main job is to punish students.

_____ 31. My teachers treat me fairly.

_____ 32. My teachers make sure I understand what I am supposed to do.

_____ 33. I like working with other students in my classes.

_____ 34. I would rather learn a new game than play one I already know.

_____ 35. I'm afraid to tell my teacher when I don't understand something.

_____ 36. I feel good when I'm at school.

_____ 37. I get scared when I go to the office.

_____ 38. My teachers unfairly punish the whole class.

_____ 39. I get tired of hearing my teacher talk all the time.

_____ 40. School is a good place for making friends.

_____ 41. I wish I could have the same teachers next year.

_____ 42. I like trying to work difficult puzzles.

_____ 43. My teachers scare me.

_____ 44. I like to stay home from school.

_____ 45. When I have a problem on the school grounds at break or lunch time, I know I can find a nice teacher to help me.

_____ 46. I don't like most of the other students in my classes.

_____ 47. My teachers are not very friendly with the students.

_____ 48. The biggest reason I come to school is to learn.

_____ 49. My teachers are mean.

_____ 50. I'm embarrassed to be in the classes I'm in.

_____ 51. My teachers grade me fairly.

_____ 52. I think a new student could make friends easily in my classes.

_____ 53. I feel like my teachers don't like me when I do something wrong.

_____ 54. There are too many students in my classes.

_____ 55. My friends and I try hard to make a new student feel happy.

_____ 56. My teachers like some students better than others.

_____ 57. I feel unhappy if I don't learn something new in school every day.

_____ 58. When I do something wrong my teachers correct me without hurting my feelings.

_____ 59. I like school better than my friends do.

_____ 60. I have to share books with other students too often in school.

_____ 61. I know what my teachers expect of me.

_____ 62. My teachers are often too busy to help me when I need help.

_____ 63. I want to be a very good student.

_____ 64. My teachers don't care about the students.

_____ 65. I often feel lost at school.

_____ 66. My teachers usually explain things too slowly.

_____ 67. There's no privacy at school.

_____ 68. Other students often boss me around at school.

_____ 69. At school, other people really care about me.

_____ 70. I would rather get books for my birthday than clothes or toys.

_____ 71. I would rather eat lunch at home than at school.

_____ 72. My teachers boss the students around.

_____ 73. The students in my classes nearly always obey the teacher.

_____ 74. We change from one subject to another, too often in my classes.

_____ 75. I like my teachers.

ITEM ANALYSIS WORKSHEET FOR: THE SCHOOL SENTIMENT INDEX

NAME _____ DATE _____ AGE _____

SCHOOL _____ INDEX _____

DESCRIPTION	STUDENT RESPONSE TRUE/UNTRUE	ITEM	VALUE	NET
I. TEACHER:				
Mode of Instruction	_____	2	+	_____
	_____	8	-	_____
	_____	10	-	_____
	_____	16	-	_____
	_____	18	+	_____
	_____	24	-	_____
	_____	26	-	_____
	_____	32	+	_____
	_____	39	-	_____
	_____	51	+	_____
	_____	62	-	_____
	_____	66	-	_____
	_____	74	-	_____
Authority and Control:				
	_____	6	+	_____
	_____	23	+	_____
	_____	31	+	_____
	_____	35	-	_____
	_____	38	-	_____
	_____	43	-	_____
	_____	49	-	_____
	_____	53	-	_____
	_____	58	+	_____
	_____	61	+	_____
	_____	64	-	_____
	_____	72	-	_____
	_____	73	+	_____
Interpersonal Relationships:				
	_____	3	+	_____
	_____	11	+	_____
	_____	20	-	_____
	_____	28	-	_____
	_____	41	+	_____
	_____	47	-	_____
	_____	56	-	_____
	_____	75	+	_____

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II. LEARNING:

	27	+	
	34	+	
	42	+	
	48	+	
	57	+	
	70	+	

III. SOCIAL STRUCTURE AND CLIMATE:

	5	−	
	7	−	
	13	+	
	14	+	
	15	+	
	22	+	
	30	−	
	45	+	
	50	−	
	54	−	
	60	−	
	65	−	
	67	−	
	69	+	
	71	−	

IV. PEER:

	9	−	
	17	−	
	25	−	
	33	+	
	40	+	
	46	−	
	52	+	
	55	+	
	68	−	

V. GENERAL:

	4	+	
	12	−	
	19	+	
	21	−	
	29	−	
	36	+	
	44	−	
	59	+	
	63	+	

ITEM ANALYSIS CALCULATION SHEET FOR
SCHOOL SENTIMENT INDEX

NAME _____ DATE _____ AGE ____

1. For each item marked "True" which has a + (positive)
   value, record a + in the column headed by the word "NET."

2. For each item marked "Untrue" having a + value, record
   a - (negative) in the column headed by the word "NET."

3. For each item marked "True" which has a negative value,
   record a - in the column headed by the word "NET."

4. For each item marked "Untrue" which has a - value, record
   a + in the column headed by the word "NET."

5. Total the positives (+).   TOTAL _____

6. Total the negatives (-).   TOTAL _____

7. Write the totals as a fraction: _____ + (positive)
                                              - (negative)

8. Divide to find the Index.

9. Record the Index on the face of the SCHOOL SENTIMENT
   INDEX, and in this space: _____
                                  INDEX

APPENDIX H

STUDENT CHARACTERISTICS FOR CASE STUDY ANALYSIS

Student: Date: Teacher:

CONFIDENTIAL: STUDENT CHARACTERISTICS

(Please check one or more characteristics in each category.)

A.   The student's work is generally
     1.   prompt
     2.   late
     3.   incomplete
     4.   thorough
     5.   careless
     6.   neat
     7.   sloppy
     8.   imaginative
     9.   perfunctory

B.   The student has difficulty doing assignments which are
     1.   short, clear, routine
     2.   long-range, with ample teacher direction
     3.   long-range, with direction left to student
     4.   to be written
     5.   to be reported orally
     6.   anything out of the ordinary
     7.   to be done at home

C.   During in-class working periods, the student generally
     1.   applies himself consistently and efficiently
     2.   applies himself consistently but not efficiently
     3.   works well for short periods only
     4.   needs to be "made" to stay at the job
     5.   habitually disturbs his peers

D.   School-work for this student seems to be
     1.   an unpleasant necessity to be avoided or dispensed
          with quickly
     2.   usually dull, only occasionally of interest
     3.   a means to win teacher approval
     4.   a means to win parental approval
     5.   a means to win peer approval
     6.   important as a means of self-improvement
     7.   important as a means toward a long-range goal

E.   In attempting to solve a learning problem, the student
     has difficulty
     1.   perceiving the problem

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2. developing problem solving strategies
3. organizing data
4. making generalizations
5. testing generalizations
6. remembering facts
7. remembering ideas
8. working with concrete examples
9. working with abstract examples

F. When faced with an "open-ended" situation where there are no "right" answers, the student
1. tends to panic and withdraw
2. becomes irritable and demands "the right answer."
3. remains calm but is unable to hypothesize
4. formulates hypotheses and devises means for testing them
5. makes wild guesses without knowing how to test them

G. In a well-defined situation where answers are either right or wrong, the student's thinking is generally
1. logical
2. illogical
3. accurate
4. erratic
5. hampered by anxiety
6. uneven (occasionally accurate, occasionally irrelevant)

H. The student reveals the extent of his curiosity by
1. doing only the work assigned
2. asking thoughtful questions
3. pursuing other sources of materials or experiences
4. relating the work at hand to other experiences
5. following through consistently on matters of individual interest

I. In class, the student relates to his peers with
1. enthusiasm
2. cooperation
3. leadership
4. confidence
5. apprehension
6. belligerance
7. laziness
8. withdrawal

J. When not in class, the student
1. exhibits considerable vitality
2. withdraws from association with others
3. assumes leadership role
4. is generous and cooperative
5. becomes aggressive

6. does not consider the needs of others
7. engages in personal interests and activities
8. doesn't know what to do

K. When not in class, the student is most often
1. with one or two close friends
2. with the same group of friends
3. with adults rather than peers
4. alone

L. The student's peers regard him with
1. respect
2. liking a desire for association
3. ridicule
4. suspicion
5. toleration
6. admiration
7. indifference

M. In school, the student's attitude toward his parents is one of
1. pride and affection
2. hostility
3. submissiveness (strongly directed by parents)
4. embarrassment
5. alternate pride and rebellion

N. In his relationships with teachers, the student
1. constantly seeks teacher's companionship and reassurance
2. avoids being alone with teacher
3. consults teachers only in exceptional situations
4. relates naturally and easily with teachers
5. seeks attention of special staff (counselor, librarian, etc.)

O. In his attitudes toward the adult world, the student
1. is strongly motivated by adult approval
2. exhibits marked antipathy toward adults
3. seeks a behavior pattern which is clearly independent of adults
4. is strongly motivated by peers
5. is balanced in desires for adult and peer approval

P. In general, the student seems to relate best with adults who are
1. female
2. male
3. older
4. younger
5. calm

6. energetic
7. well-organized
8. creative
9. authoritarian
10. non-directive

Q. The student regards himself physically as
1. attractive
2. unattractive
3. underdeveloped
4. strong, energetic
5. well-developed
6. weak
7. apprehensive about future growth and development
8. confident about future growth and development

R. The student believes that his peers see him as
1. well-liked, a potential friend
2. disliked, one to be avoided whenever possible
3. someone not usually noticed
4. opinionated
5. gregarious
6. quarrelsome
7. intelligent
8. attractive
9. reliable
10. artistic

S. The student feels the teachers and other adults see him as
1. polite
2. withdrawn
3. silly
4. humorous
5. bright
6. dull
7. contrary
8. boisterous
9. nervous
10. confident

T. The student perceives his academic potential as
1. superior
2. adequate
3. limited to certain areas
4. restricted because of certain skill deficiencies
5. confusing and uncertain
6. irrelevant

Comments:

APPENDIX I

THE SEQUENTIAL INTERRELATED VARIABLES

OF AFFECTIVE TEACHING

SUMMARY: STUDENT PROTOTYPES

STAGE I:

Personality Characteristics: Manifest thinking in
absolutes, either/or alternatives. Rarely original.
Lean on rules and become highly insecure without
them. Disturbed by liberal or innovative ideas
which are seldom understood. Tend to make over-
generalizations from single observations. Not
information seeker. Tend to stereotype. Tend to
be unable to think way out of situations which
results in negligible stress-tolerance capability.

Philosophic Development: Punishment-Obedience orien-
tation. Physical consequences of action determine
its goodness or badness regardless of the human mean-
ing or value of these consequences. Avoidance of
punishment and unquestioning deference to power are
valued in their own right.

Thought Process: Association. The student's
perception of the learning situation, his interpre-
tation of its personal meaning to him, and his
subsequent actions in dealing with it are determined
by his willingness to attend to the patterns, struc-
ture and setting within which the cues to learning
are presented and reinforced. The teacher's task is
to provide an environment within which new percep-
tions may be associated with an accepting interaction.

Developmental Strategy: Attention. Before learning
can begin, the student must have the ability to focus
on and attend to appropriate cues and to selectively
disregard inappropriate cues.

Readiness Task: Basal. The most primitive level
within which student and teacher interact. Provide
maximum gratification. Establish contact on student's
own terms. Indirection.

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STAGE II:

Personality Characteristics: Absolutism. See
Stage I.

Philosophic Development: Instrumental Relativist
Orientation. Right action consists of that which
instrumentally satisfies the student's needs and
only occasionally the needs of others. Human
relations are viewed in terms similar to those of
the marketplace. Elements of fairness, of reci-
prosity and equal sharing are present, but always
interpreted in pragmatic way, i.e., "You scratch my
back and I'll scratch yours!" with little loyalty,
gratitude, or justice.

Thought Process: Comparison. Determining simi-
larities and differences on basis of some criteria.
Because the teacher's academic demands are minimal,
the teacher's main goal is to make the student
secure and successful within the learning environ-
ment thereby counteracting the previous mental,
emotional, and physical set which has blocked the
learning process.

Developmental Strategy: Response. The student
must make a response in order to learn. Social
contact and interaction become important sources
for motivation.

Readiness Task: Acceptance. The second stage
task level consists of acceptance tasks for both
student and teacher. The teacher communicates
complete acceptance of the student, and attempts
to establish the beginnings of a personal relation-
ship with him, though still on the student's own
terms. Student now has the task of relating to
the teacher as a social object and respond atten-
tively to verbal interaction. Thus laying the
groundwork for a close interpersonal relationship
which will be the focus of a later level. Teacher
sets minimal behavioral limits and usually work
with the student on a one-to-one basis.

STAGE III:

Personality Characteristics: Negative Independence.
Tend to dissociate from all authority. Tend toward
ambivalence. Resist authority but at same time
appear to need it. Tend to prefer situations where
there is a hierarchy of authority and in such
situations attempt to put themselves into some
middle ground. Very low self-image giving rise to
feelings of insecurity. Tend toward paranoia. Chip
on shoulder. Fear of self-disclosure. Tend to rely
on hatred of others to give themselves a sense of
identity. Non-reflective. Compulsive rebel.

Philosophic Development: Interpersonal Concordance
Orientation. ("Good-Boy," "Nice-Girl"). Good
behavior is that which pleases or helps others and
is approved by them. Much conformity to stereotypic
roles. One earns approval by conforming to majority
behavior.

Thought Process: Convergence-Divergence. Arriving
at one pattern or one solution out of diverse
elements using some criteria. The concept of order
and routine is basic in an effective learning
environment for all students but particularly so
for students with non-conforming learning problems
and whose erratic patterns of classroom functioning
have contributed greatly to their inability or
failure to learn. The teacher carefully evaluates
the student's capacity for appropriate choice,
presents him small realistically attainable units
of work and attempts to remove extraneous stimuli.

Developmental Strategy: Order. In addition to
noticing and doing, the student must also follow
directions and develop order in his attending and
responding behavior.

Readiness Task: Regulatory. Once the student
feels accepted and is secure enough to form a
limited relationship with the teacher he is ready
to be held to regulation tasks. Teacher's task is
to increase control and to gradually impose struc-
ture, routine, and definite limits in the learning
situation. Although academic deficiencies are still
completely accepted, the student is now held
accountable for more regulated and appropriate
behavior.

STAGE IV:

Personality Characteristics: Negative Independence.
See Stage III.

Philosophic Development: Law-and-Order Orientation.
Authority, fixed rules and the maintenance of the
social order are valued. Right behavior consists of
doing one's "duty," showing respect for authority and
maintaining the social order for its own sake.

Thought Process: Induction. Using specific situa-
tions, objects, and ideas, the student arrives at
generalizations, principles, rules. Through explora-
tion of the physical parameters of the learning
environment the student is allowed to discover the
behavioral parameters necessary for the learning
environment to function peacefully and efficiently.

Developmental Strategy: Exploration. The more
sensitive the student is, the more he notices around
him. The more he notices, the more he does, conse-
quently learning more about his environment.

Readiness Task: Inquiry. It is the teacher's task
to present or introduce learning by offering a rich
variety of multi-sensory experiences. The student's
task is to reach out and to explore. It is not the
appropriateness for his chronological age or grade
level, but the appeal for the exploratory activities
to the student which is important. Concrete
experience is utilized as the basis of instruction.

STAGE V:

Personality Characteristics: Socialization. Mani-
fest socializers. Tend to want to be around others
and to like others. Tend to find their identity in
the group. Criticism and ostracism tend to consti-
tute strong fears of punishment. Tend to use the
threat of withdrawing affection. Can role-play
quite well. Tend to function well only when they
feel wanted by the group. Able to think reflectively
about problems but tend to concentrate most of their
energies on solving the problem of how to stay in
the group. Little commitment to self-growth, culti-
vation. Lacking in persistent intellectual
curiosity. Tend to show high degree of stress-
tolerance.

Philosophic Development: Social-Contract Legalistic
Orientation. Utilitarian overtones. Right action
tends to be defined and thought of in terms of
general individual rights and in terms of standards
which have been critically examined or abstractly
agreed upon by the group. There is a clear aware-
ness of the importance of personal values and
opinions and a corresponding emphasis on procedural
rules of reaching consensus. Right is generally a
matter of personal values which are supported by the
group.

Thought Process: Deduction-Classifying-Categorizing.
Starting with generalization and arriving at a
specific. Establishing an arbitrary system of
groupings on the basis of common characteristics.
Valuing the trusting relationship with the teacher
is evidence of significant adaptive development for
the student who is now expected to generalize from
this experience that the school does offer something
of value and that the greater the magnitude of
cooperation, the greater will be the student's
reward and success.

Developmental Strategy: Social. Working and playing
with other students and the teacher appropriately.

Readiness Task: Relationship. The teacher has the
task of increasing his value as a social reinforcer
and forming a genuine interpersonal relationship
with the student. Implies more than mutual accept-
ance, for the relationship now becomes an important
source of motivation. The student is concerned with
gaining the teacher's respect and approval. The
teacher expresses more personal concern and interest
in the student and uses social approval and disap-
proval freely as a means of motivation and of control.

STAGE VI:

Personality Characteristics: Socialization. See
Stage V.

Philosophic Development: Universal Ethical-
Principle Orientation. Right is defined by con-
science in accord with self-chosen ethical principles,
which in turn are based on logical comprehensiveness,
universality, and consistency. Abstract and ethical,

i.e., "golden rule." They are not concrete moral
principles like "The Ten Commandments." Universal
principles of justice, reciprocity and equality of
human rights, respect for the dignity of human
beings as individual persons all are evidence of
this high level philosophic development.

Thought Process: Critical Thinking. This is a
complex process involving analysis, weighing of
components, and making a decision on the basis of
thorough evaluation.

Developmental Strategy: Mastery. This category is
focused on mastery of basic and complex intellectual
and adaptive skills and acquisition of a fund of
knowledge and information about the environment which
will enable the student to function successfully
within the limits of his ability.

Readiness Task: Proficiency. When the student is
ready to deal with his academic deficiencies and to
concentrate on a basic curriculum program, profi-
ciency tasks are undertaken.

STAGE VII:

Personality Characteristics: Flexible. Tend to be
tolerant, open-minded. Relate to others democrati-
cally. Information seekers. High curiosity to know.
Slow to generalize on shaky evidence. Think
reflectively. Are good problem solvers. Can role-
play with great imagination. Tend to find it diffi-
cult to be anything else, even though they can see
things as others see them. High degree of stress-
tolerance.

Philosophic Development: Universal Ethical-Principle
Orientation. See Stage VI.

Thought Process: Conceptualization. Arriving at a
broad understanding. Concept formation in the
student involves many of the processes described
in the previous levels and stages and results in
the enlargement of an understanding of the place
the student has in the social interactions and the
conventions which he will be called upon to cope
with in a routine and non-crisis manner.

Developmental Strategy: Achievement. This level occupies the highest level on the developmental sequence. This is the enrichment level where self-motivation in learning is demonstrated and where the pursuit of intellectual and adaptive skills in depth is essential. Student takes pride in his accomplishment and increases in desire for self-improvement.

Readiness Task: Independent Performance. The student who is consistently self-motivated, achieving up to his intellectual potential, eager for new learning experiences, and socially well-integrated in the learning environment is functioning on the independent performance level. Student has completed all the tasks described in preceding levels and stages and is ready and in a position to devote his energies to efficient academic and social learning.

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