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ABSTRACT

Intended for administrators and teachers, these guidelines for kindergarten programs in the state of Delaware (1) describe the characteristics of the kindergarten child, (2) list content standards for the kindergarten curriculum, and (3) describe the kindergarten classroom environment. After a brief philosophical statement, Section 1 focuses on the physical, social, emotional, and intellectual characteristics of the kindergarten child. Content standards listed in Section 2 concern learning to communicate through language arts, to use numbers, to investigate, to learn about self in relation to others, and to learn how to use large and small muscles and how to express thoughts and feelings creatively. The description of the kindergarten environment in Section 3 includes guidelines for room arrangement, building kindergarten centers and supplying equipment and materials, and offers suggestions for planning the daily schedule, classroom management, evaluating children's progress, and encouraging parental involvement. The text is illustrated with black and white photographs and line drawings. A brief bibliography cites publications providing supplemental information. (RH)

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*Guidelines for
Delaware
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STATE OF DELAWARE
DEPARTMENT OF PUBLIC INSTRUCTION
DOVER, DELAWARE

GUIDELINES
FOR
DELAWARE KINDERGARTENS

October, 1985

THE DELAWARE DEPARTMENT OF PUBLIC INSTRUCTION

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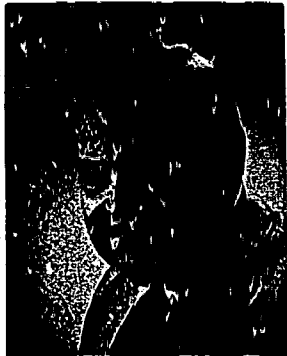
WILLIAM J. McCORMICK, State Supervisor of Elementary
Education

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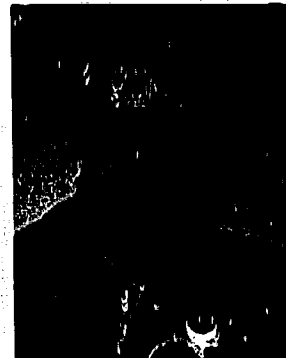
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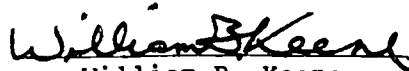
Appreciation is expressed to Karen MacMurray for her artistic assistance with the illustrations and to Teresa Kingery whose clerical skills were invaluable.

FORWARD

The Delaware Department of Public Instruction is committed to quality kindergarten programs. The publication, Guidelines for Delaware Kindergartens, prepared by early childhood specialists, is an important resource for administrators and teachers.

This document supports a child-centered program of learning experiences appropriate for kindergarten children and encourages a partnership between the home, the school and the community.

Since kindergartens are an integral part of the public school system, the contents of this guide provide direction and assistance to those responsible for kindergarten education.



William B. Keene
State Superintendent of
Public Instruction



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PHILOSOPHY

As the kindergarten child embarks on his first step into the schooling process, the unique characteristics of this age child dictate a program of rich learning experiences, not just in preparation for the next grade, but for becoming a life-long learner. The program should provide continuity of experiences which promote growth, challenge thinking, and equally encourage the development of cognitive, affective and psychomotor skills. The value of the program is in providing opportunities for maximizing the growth and development of the whole child.

Thus, in the education of the kindergarten child, value must be placed on:

- a humanistic climate that fosters a positive self concept.
- a range of tasks that addresses the individual abilities and interests of children to promote successful experiences.
- a developmental program that moves only from the concrete (hands-on) tasks to the abstract when there are valid indications that the child is ready.
- an attitude that children have an innate drive and ability to learn.
- an integrated curriculum rather than emphasis on facts and skills taught in isolation.
- parents, teachers and support staff working together for the educational growth and success of each child.
- allowing children to be children - the right to childhood.
- the child's right to play which is considered parallel to such rights as special protection, adequate nutrition, housing, health care and education as declared by the United Nations.



CHARACTERISTICS OF THE KINDERGARTEN CHILD

Educators need to put into practice what is known about the general characteristics of young children in order to provide appropriate learning experiences for kindergarteners.

The characteristics of the kindergarten child may be analyzed under the four following major areas of development: physical, intellectual, social, and emotional.

DEVELOPMENTAL CHARACTERISTICS OF THE KINDERGARTEN CHILD AND THEIR IMPLICATIONS FOR TEACHERS

PHYSICAL CHARACTERISTICS

- *Very active; large muscles better developed than small muscles.
- *Finer muscle skills, involving the use of fingers, hands, eyes, tongue, are developing rapidly, but still immature. Definite handedness may not yet be established.
- *Energetic but easily fatigued.

IMPLICATIONS FOR THE TEACHER

- Provide equipment, space and time for sufficient large muscle activities. Avoid long periods of inactivity.
- May become tired and strained if adults set over-precise standards or require prolonged efforts at detailed work.
- Use manipulative materials such as: paint brushes, magic markers, crayons, pencils, scissors and clay, as well as beads, blocks, pegs, puzzles, etc.
- Unlined paper is recommended for beginning writing experiences since writing as a drill skill is inappropriate for the kindergarten child.
- Provide children with large pictures, print, and words.
- Balance strenuous activities with quiet ones; provide both indoor and outdoor play.

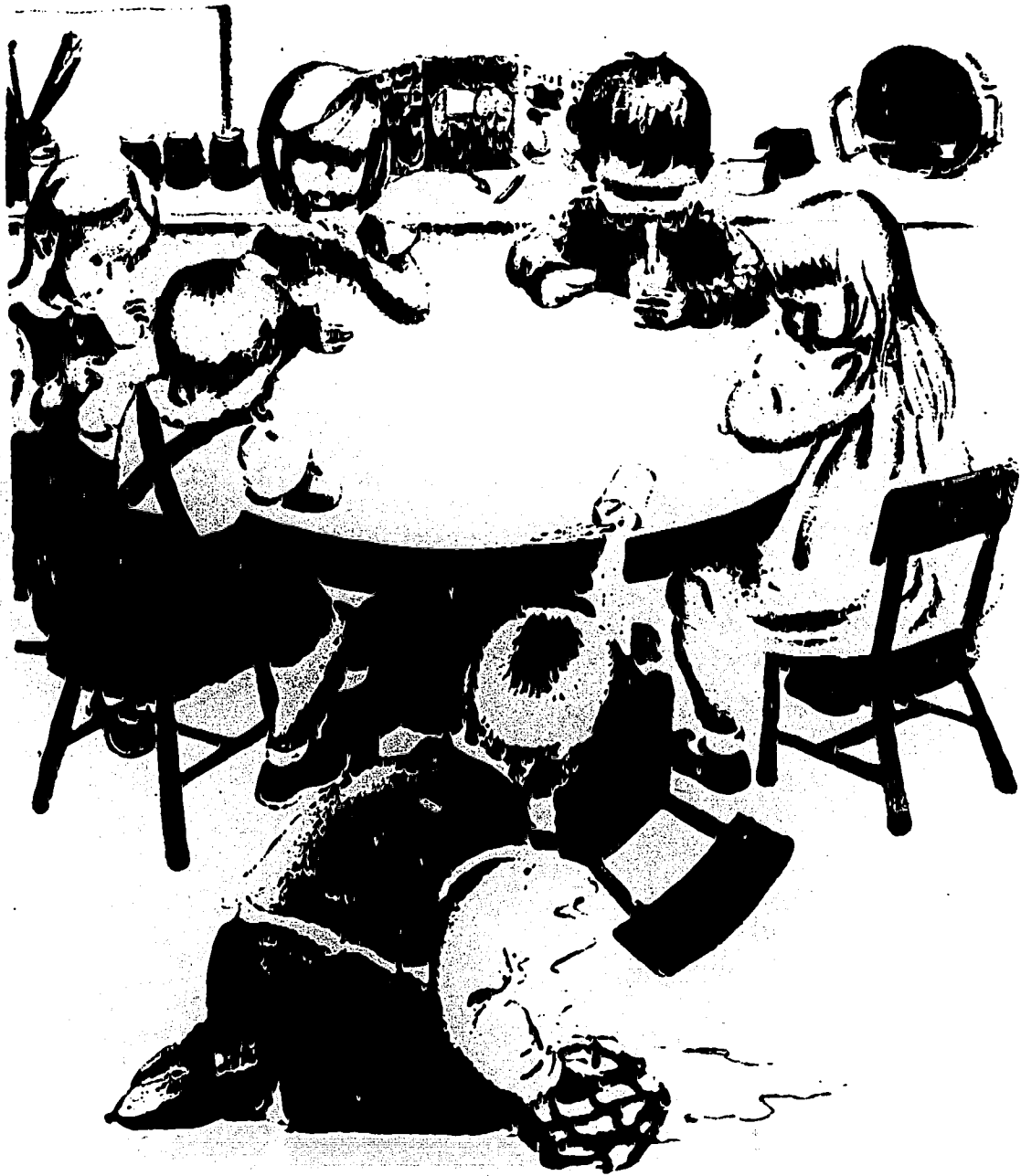


*Concepts are learned through the use of the five senses.

*Susceptible to infections.

-Primary children need to experience directly. They do not learn "about" reality or the world by being told by an adult. Optimal functioning of all senses enables more information to be acquired.

Teach good health and nutritional habits, including proper care of teeth, and safety precautions.



DEVELOPMENTAL CHARACTERISTICS OF THE KINDERGARTEN CHILD AND THEIR
IMPLICATIONS FOR TEACHERS

SOCIAL CHARACTERISTICS

- *Self-centered but becoming more sociable.

- *Seeks acceptance from adults as well as peers.

- *Needs nurturing.

- *Is an "Immediate Being" (Expects things to happen immediately)

- *Is comfortable in familiar settings.

- *Has begun to develop a sense of independence.

IMPLICATIONS FOR THE TEACHER

- Provide many opportunities for sharing and interacting in both structured and unstructured settings. Promote understandings of behaviors of self and others.

- Accept the child as a valued individual. Model appropriate responses.

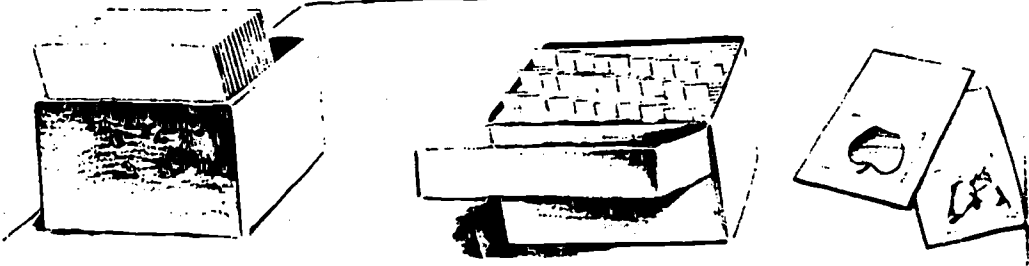
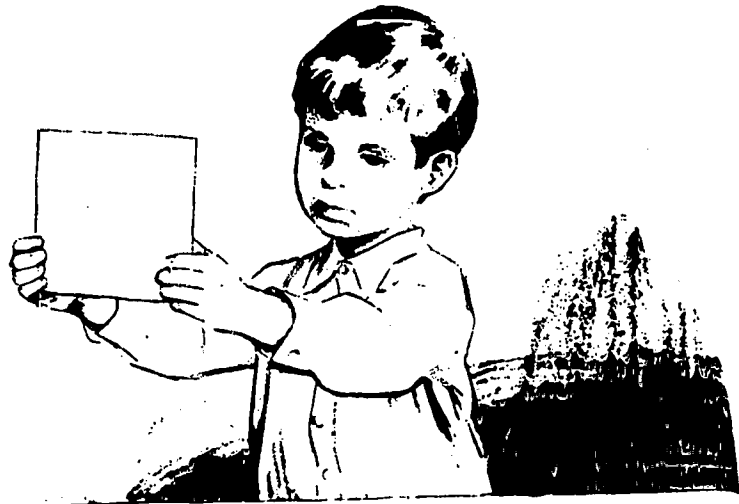
- Respond with caring and affection.

- Plan activities within the child's time reference - the here and now. Reference to the future is seldom conceptualized.

- Plan a time for children and parents to visit the classroom to become familiar with logistics and programs before the beginning of school.

- During the first month of school, orient students to the building and school personnel.

- Let children do as much for themselves as they are capable of doing, but help when assistance is needed.



DEVELOPMENTAL CHARACTERISTICS OF THE KINDERGARTEN CHILD AND THEIR
IMPLICATIONS FOR TEACHERS

EMOTIONAL CHARACTERISTICS

- *Likes to learn new things and then try it out independently.

- *Wants to know what to expect as well as what is expected.

- *Wants recognition and seeks praise. Usually wants to please.

- *Usually dependable and cooperative.

- *Is developing responsible behavior.

- *May react impulsively to stressful situations and may still react to conflict physically.

IMPLICATIONS FOR THE TEACHER

- Provide a variety of activities which the child can do independently and with success. Encouragement, and other forms of positive feedback are essential.

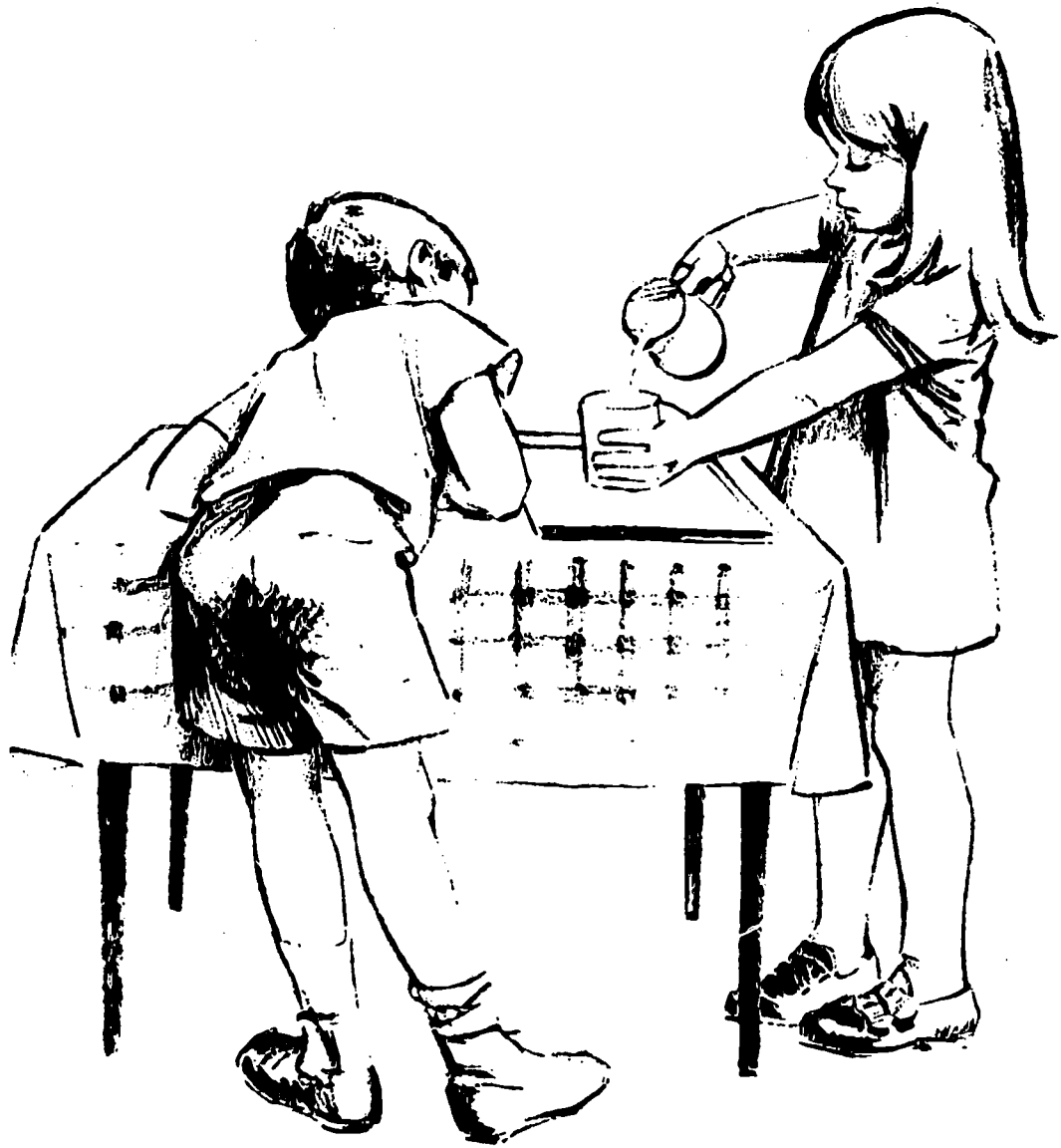
- Provide a stable, secure atmosphere where expectations are realistic, known and can be achieved without intimidation.

- Provide ways in which acceptable behavior can be recognized and reinforced in a positive manner.

- Provide guidance in purposeful use of energy. Provide interesting and stimulating materials and activities.

- Provide opportunities to fulfill responsibilities.

- Guide child in learning positive ways to cope with conflict. The school program must provide appropriate experiences for the developmental level of the child. Children should be given opportunities on their own to settle conflicts. Provide role-playing activities, filmstrips, bibliotherapy (stories) and counseling services, if available.



DEVELOPMENTAL CHARACTERISTICS OF THE KINDERGARTEN CHILD AND THEIR
IMPLICATIONS FOR TEACHERS

INTELLECTUAL CHARACTERISTICS

- *Curious - wants to learn about many things.

- *Internalizes concepts through the use of the five senses.

- *Play is a natural process through which children do their best learning.

- *Is developing a longer attention span.

- *Vivid imagination. Beginning to distinguish between fact and fantasy.

- *Developing the ability to make responsible decisions and choices.

IMPLICATIONS FOR THE TEACHER

- Provide many opportunities for observing, imitating, examining, investigating, exploring and questioning.

- Ask thought-provoking questions, lead them to wonder and use open-ended sentences and stories.

- "Active" manipulation of objects.

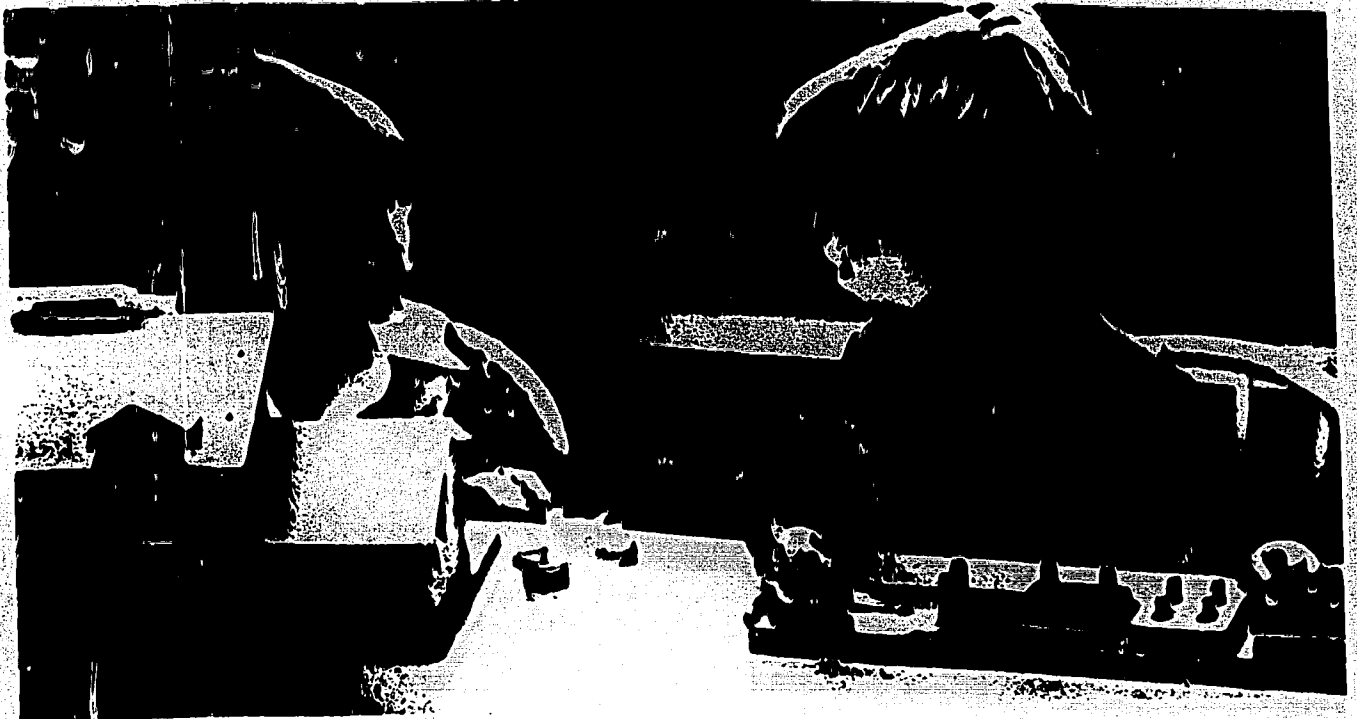
- "Purposeful" play involves careful planning including time allotment, props, classroom management themes, and parameters of play.

- View play as a necessary and worthwhile learning experience and realize that play is children's work.

- Provide activities consistent with the child's attention span and interest. Repetition at this level is essential to skill development.

- Provide opportunities for socio-dramatic play, role-playing situations, imaginative activities, and the use of books, records, films and other materials.

- Provide opportunities with the freedom for making decisions and choices based on reasonable criteria.



**DEVELOPMENTAL CHARACTERISTICS OF THE KINDERGARTEN CHILD AND THEIR
IMPLICATIONS FOR TEACHERS**

INTELLECTUAL CHARACTERISTICS

*Rapid language development. Interested in words; enjoys rhymes and songs, toys with words, repeats words and sounds.

*Uses conversation as a means of communication.

*Likes to have stories read and told.

*Enjoys creative activities.

IMPLICATIONS FOR THE TEACHER

-The program should include a variety of experiences with stories, rhymes, poems, finger plays, puppets, role playing, drama, music, art, dance, films, filmstrips and other audio-visual media.

-Provide opportunities for dialoguing through appropriate activity centers that spawn verbal interaction such as housekeeping, building with blocks, and experimenting at the sandtable.

-Snack time is an excellent opportunity for verbal interaction.

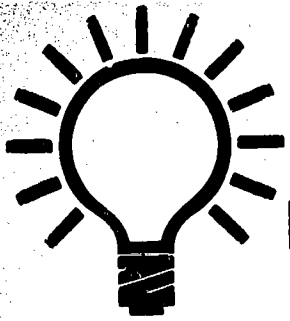
-Schedule a definite story time daily.

-To foster a love for reading and create an optimum experience with stories, a teacher must select and review quality literature and be prepared to present it.

-Scheduled visits to the library introduce children to the world of books, pre-reading activities and library procedures. These activities should be an integral part of every kindergarten program, for they intensify a child's desire to read.

-Provide materials and tools such as paper, paint, and construction materials for creative activities.

-Encourage originality in all endeavors related to art, music and dramatic play. Make no comparison with adult models. It is the creative process that is valued more than the product.



NEW IDEAS
I WANT TO TRY

KINDERGARTEN CONTENT STANDARDS

As a language-based skill, reading is an integral part of the total language arts curriculum in which children listen to language, speak language, write language and read language. A well-balanced language development program will avoid overemphasizing one aspect of the language arts to the exclusion of others. Indeed, every attempt will be made to correlate and integrate instruction.

Certainly, any sound schoolwide language arts program includes reading at all levels and recognizes that there is no fixed age at which all children are best suited to begin reading instruction. At the pre-elementary level, however, emphasis must be placed upon total language development with opportunities for a more natural and individualized progression into reading. Opportunities for reading signs and labels, as well as child-dictated and teacher-authored books and story charts, provide children with many ways to expand their language. Speaking and listening activities and daily experiences with literature serve as essentials to the development of more and more complex reading and writing skills.

Dorothy Strickland





KINDERGARTEN CONTENT STANDARDS

CURRICULUM AREA I - LEARNING TO COMMUNICATE THROUGH LANGUAGE ARTS

Program Objective

1. The program will provide developmental instruction in:

oral language

listening

Student Expectations

1. The student will be expected to:
 1. 1 verbalize spontaneously in conversation
 1. 2 express ideas in complete thoughts
 1. 3 interpret the main idea of pictures and stories
 1. 4 create original stories
 1. 5 tell the events of a story or personal experience in sequence
 1. 6 use appropriate words to describe emotional actions, and sensory images
 1. 7 recite stories and rhymes
 1. 8 enunciate clearly
 1. 9 use accurate vocabulary to express ideas
 - 1.10 assume the role of a character and present dialogue
 - 1.11 recite name, address and phone number
 - 1.12 dictate stories and provide other listening experiences
 - 1.13 use sentence patterns appropriate for a five year old
 - 1.14 follow a series of two or more oral directions
 - 1.15 listen to information given orally and answer questions
 - 1.16 distinguish between a variety of sounds
 - 1.17 listen attentively to another's contributions
 - 1.18 hear differences between pairs of words that sound similar (i.e., cop, cope, like, less, when, went, etc.)
 - 1.19 identify rhyming words
 - 1.20 identify two words that begin with the same sound
 - 1.21 listen to stories and demonstrate comprehension by responding to questions pertaining to:
 - . recall of information
 - . main idea
 - . sequence of events
 - . predicting outcomes
 - . drawing conclusions



CURRICULUM AREA I - LEARNING TO COMMUNICATE THROUGH LANGUAGE ARTS CONT.

Program Objective

Student Expectations

listening cont.

- . interpreting emotions
- . choosing between what is real
- . and what is fantasy.

1.22 listen to and demonstrate understanding of positional terms (i.e., under-over, in-on, top-bottom)

written expression

1.23 use various writing implements for labeling or printing

1.24 experience writing as a form of expression (letters, cards, notes, invitations, journals, etc.)

1.25 explain that words in print are used to read

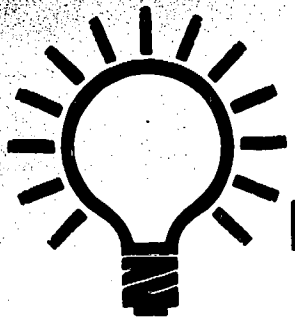
visual learning

1.26 distinguish similarities and differences in objects, pictures, shapes, letters and words

1.27 name upper and lower case manuscript letters

1.28 name numerals 0-10 in random order

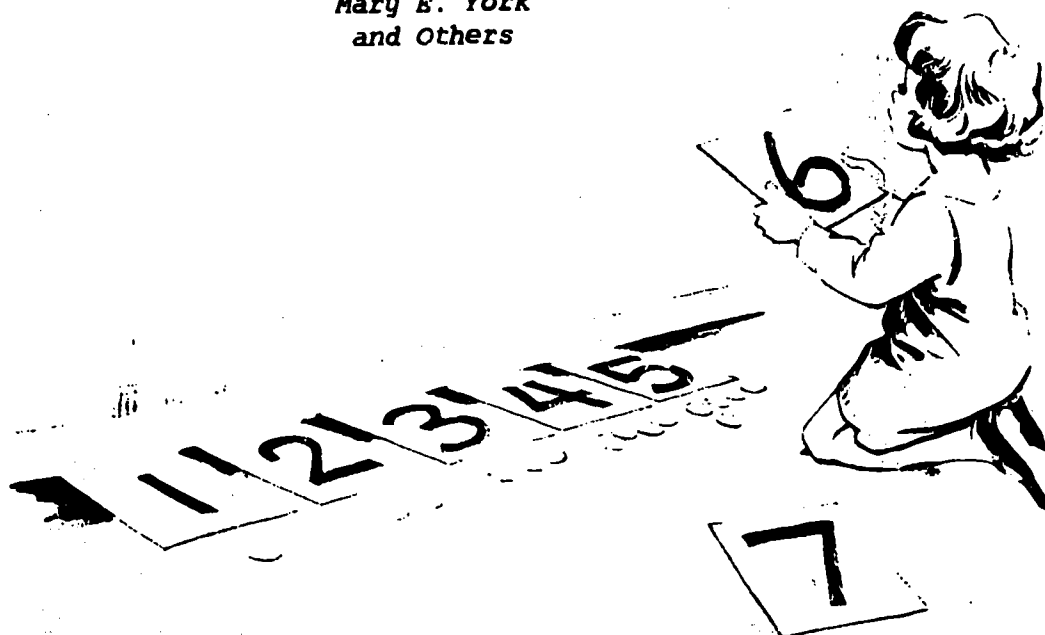




NEW IDEAS
I WANT TO TRY

"Although it is necessary and appropriate to tell children about the symbols customarily used to represent the mathematical relationships created with objects (that certain collections of objects are represented by the numeral 5, while other collections are represented by the numeral 6, for example), the relationships themselves must be created by the learner through direct actions on objects. Unless young children are given this opportunity, they may learn to recognize, repeat, and write symbols, but they may also learn little about mathematics, which is basically understanding relationships among objects. . . . Admittedly, there are social and symbolic aspects to learning what we consider basic to mathematics such as which name is given to groupings of objects, but much more basic to mathematics is the creation of the logico-mathematical relationships themselves. This is not a matter of socialization, but of mental creation. Action on objects, performed by the child, are required if this kind of knowledge is to be obtained."

Judith A. Schickedanz
Mary E. York
and Others





CURRICULUM AREA II - LEARNING TO USE NUMBERS

Program Objective

Student Expectations

2. The program will provide developmental instruction with concrete materials in the structure of our number system to include:

number relationships

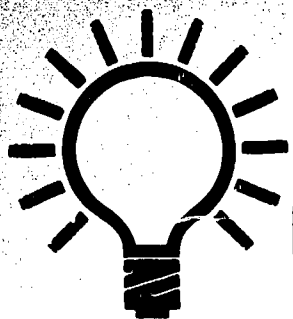
geometry

measurement

math reasoning

2. The student will be expected to:

2. 1 order the numerals 0 to 10 in sequence
2. 2 recognize each counting number is one greater than the number before it
2. 3 indicate time sequence (what happens first, next, last)
2. 4 count quantities 1-20
2. 5 indicate ordinal succession of numbers; first to fifth
2. 6 recognize and distinguish between sets which are the same or different
2. 7 name basic geometric figures: circle, square, rectangle, triangle, diamond and oval
2. 8 classify objects according to shape, size and color
2. 9 order objects according to size (3 to 5 objects)
- 2.10 tell time in terms of morning, afternoon and night
- 2.11 determine half of a whole
- 2.12 identify coins (penny, nickel, dime, and quarter)
- 2.13 match numerals to sets 0-10
- 2.14 identify and construct sets and subsets from 0-10
- 2.15 demonstrate the meaning of more than, less than, the same as or equal to another given set
- 2.16 reproduce a pattern using two attributes

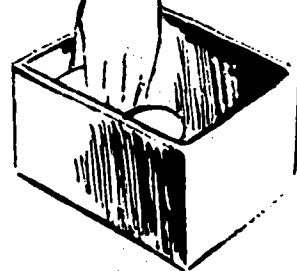


NEW IDEAS
I WANT TO TRY

"In the sense that children are so ready to manipulate, explore, and find out, they can be called "natural" scientists. They learn with their senses; they are propelled by curiosity and the temptation to test; they are capable of observing, classifying, identifying, and describing. They are interested in solving problems and arriving at conclusions. But they will need years to practice these and other skills, and above all, they need time to internalize all that they take in." "The young child needs not only to learn skills but to have his or her curiosity, which is after all the embryo of intellect, encouraged and magnified."

Dorothy H. Cohen
Marguerita Rudolph
and the
Commission on Science Instruction,
American Association for the Advancement of Science





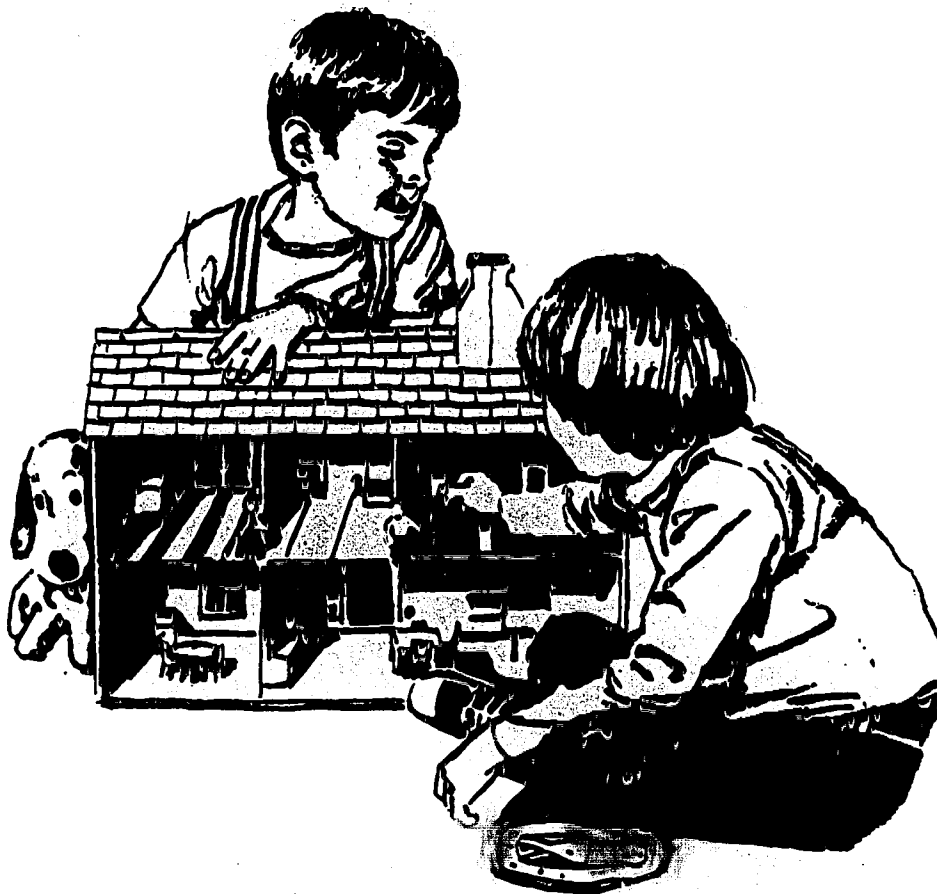
CURRICULUM AREA - III - LEARNING TO INVESTIGATE

Program Objective

3. The program will provide developmental instruction in the biological, physical and earth sciences through the processes of identifying, observing and classifying:

Student Expectations

3. The student will be expected to:
3. 1 identify living and non living things
 3. 2 identify parts of a plant: root, stem, leaves, flowers, fruit, and seed
 3. 3 identify the sun as a source of light
 3. 4 name three things needed for plant growth
 3. 5 describe animals by their observable characteristics
 3. 6 classify animals into various categories based on criteria which the student will select
 3. 7 identify the following colors: red, yellow, blue, orange, green, black, brown, purple and white
 3. 8 distinguish shades in terms of darker and lighter
 3. 9 observe and orally describe changes in weather
 - 3.10 observe the differences in the seasons
 - 3.11 classify objects on the basis of a given property (color, shape, texture, size, etc.)
 - 3.12 identify solids and liquids
 - 3.13 distinguish between objects that are hot and cold
 - 3.14 classify objects on the basis of taste: sweet, sour, salty
 - 3.15 classify objects that will sink or float after observing and manipulating them



*"The development of self esteem requires a climate in which children are valued and in which they experience success."
"Humaness requires that those who care for or teach children foster the development of a good self image in them." . . . "Kindergarten programs should provide "social situations and group experiences through which the individual may learn to plan and carry out self-actualization through socially responsible actions and with consideration for the rights and welfare of other human beings."*

*Association For Childhood Education International
and
D. A. Prescott, The Child In The Educative Process*



CURRICULUM AREA IV - LEARNING ABOUT SELF AND OTHERS

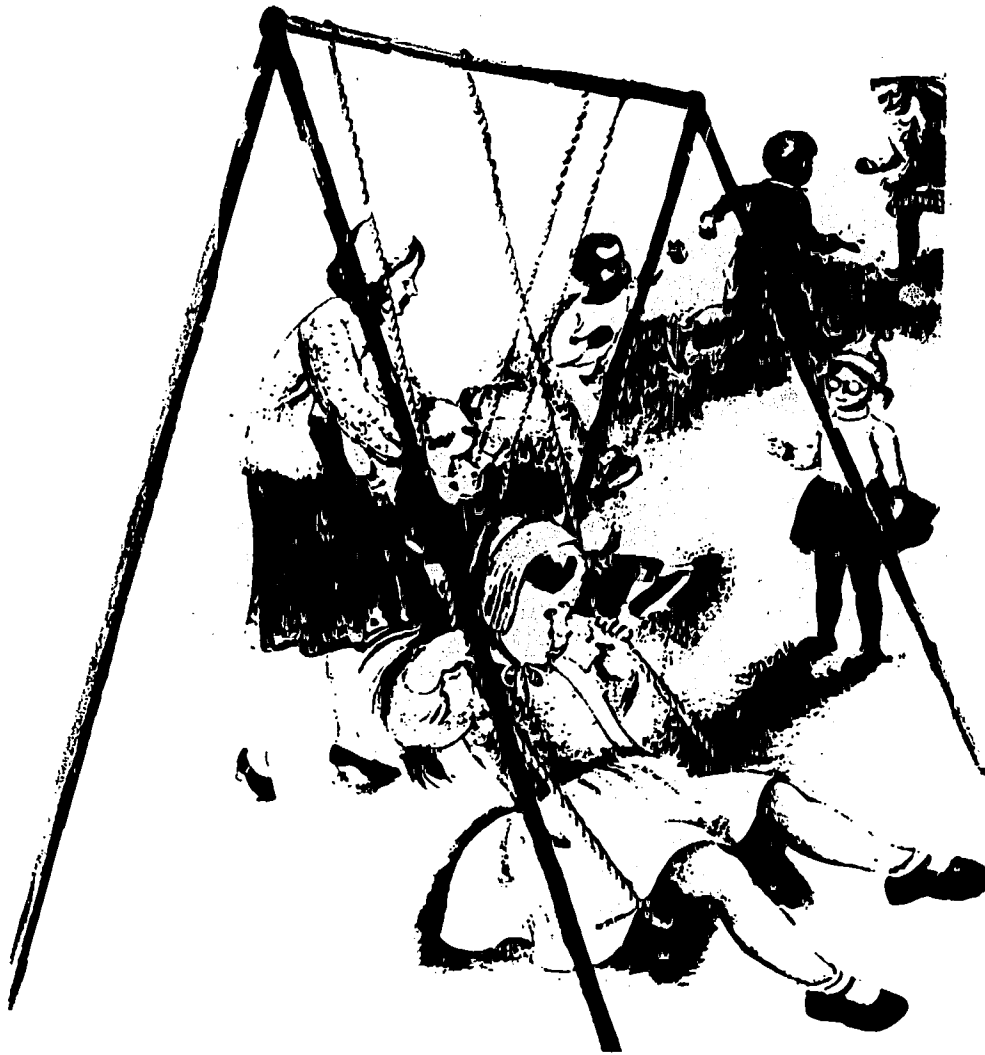
Program Objective

4. The program will provide developmental instruction in social living to foster the understanding of self in relationship to others.

Student Expectations

4. The student will be expected to:
 4. 1 relate with family and friends
 4. 2 engage in a variety of play behavior
 4. 3 take his or her turn
 4. 4 demonstrate acceptable behavior in a variety of settings
 4. 5 share equipment and materials when appropriate
 4. 6 respect the privacy, self-expression and space of others
 4. 7 respect and care for property of self and others
 4. 8 follow rules and procedures
 4. 9 demonstrate an awareness of nutritional and physical needs
 - 4.10 recognize warning labels and be aware of the dangers of caustics and poisons
 - 4.11 verbalize safe practices concerning strangers





"Movement . . . , means many things to children. It means life, self-discovery, environmental discovery, both physical and social, freedom, both spatial and self-expressive, safety, communication, enjoyment and sensuous pleasure and acceptance.

If movement means so much to the developing child, no further justification should be required for its inclusion among the major techniques in education. For some children, movement education may be one of many avenues to the goal of self-actualization. For others, it may be a "pump primer" to get the flow of interest and imagination flowing. And for still others, it may be the only way."

*The American Association for Health,
Physical Education and Recreation
and
The National Association for the
Education of Young Children*



CURRICULUM AREA V - LEARNING HOW TO USE LARGE AND SMALL MUSCLES

Program Objective

Student Expectations

5. The program will provide developmental instruction in:

5. The student will be expected to:

perceptual motor skills

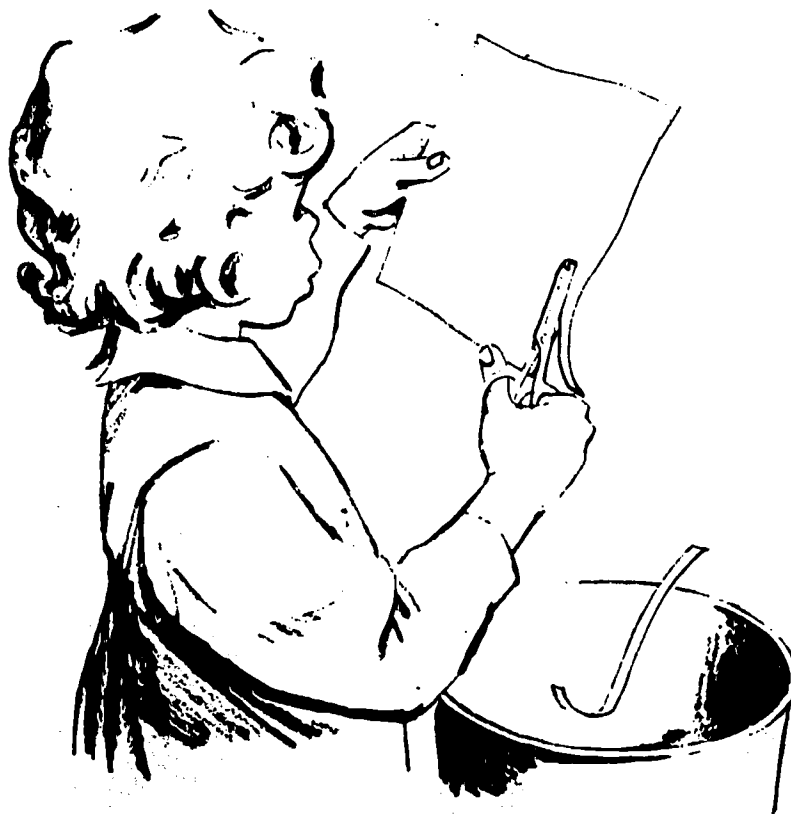
- 5. 1 interpret ideas through body movement
- 5. 2 explore spatial relationships through body movement
- 5. 3 respond physically to commands
- 5. 4 reproduce symbols and basic geometric shapes

gross motor skills

- 5. 5 participate in pitching, throwing and catching activities
- 5. 6 participate in skipping, hopping, jumping, and running activities
- 5. 7 maintain balance while participating in locomotion activities

fine motor skills

- 5. 8 manipulate objects to accomplish tasks
- 5. 9 use crayons, pencils, paint brushes and scissors with control



"Creativity is voluntary. The best a teacher can do is provide situations which stimulate and release it. Creativity is a process in which children make something which is new to them. They usually begin by 1) "dabbling" in the new experience, 2) observing, 3) discovering which results in the child's own form and order. As they work, they make a structure using linguistic, musical, physical, numerical or artistic symbols much as do the poet, philosopher, artist, scientist and mathematician. If deeply involved, children work in a disciplined way arranging, rejecting, adding, as appropriate for them. They work with vigor, tension, limitations, order. They finally achieve a product which is acceptable to them and which brings them a rewarding sense of achievement.

*The Kindergarten and Early Years of School
New Jersey Association of Kindergarten Educators*





CURRICULUM AREA VI - LEARNING HOW TO EXPRESS CREATIVITY

Program Objective

Student Expectations

6. The program will provide developmental instruction designed to help children to creatively express themselves through:

6. The student will be expected to:

art

- 6. 1 experience art as an enjoyable activity for its own sake
- 6. 2 work with various kinds of art materials to create original and unique works

music

- 6. 3 respond to the rhythm and mood of musical selections
- 6. 4 construct and experiment with musical instruments
- 6. 5 create new words using familiar melodies
- 6. 6 respond to music through painting and drawing

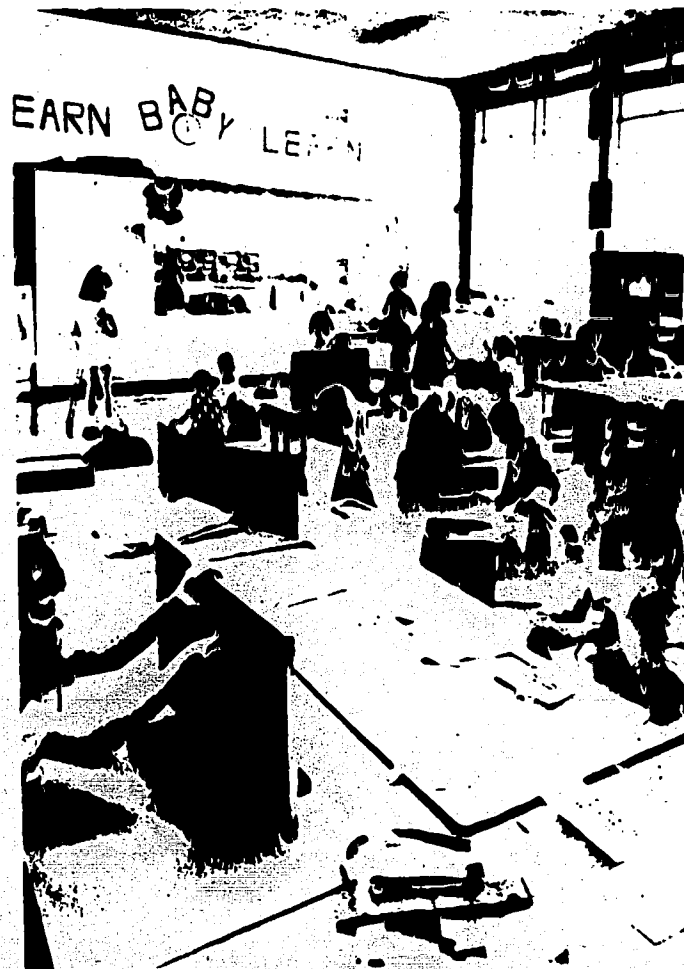
drama

- 6. 7 use a variety of materials for spontaneous dramatic play
- 6. 8 participate in simple role play activities





WORKJOBS



BRAIN POWER



THE KINDERGARTEN ENVIRONMENT

Room Arrangement

The learning environment is created by persons using the physical resources of buildings, space allocations, arrangements of furnishings, and equipment to accomplish the specific goals of the kindergarten program. There are many ways by which the room arrangement contributes to the achievement of kindergarten goals. The development of a positive self-image can be furthered by the arrangement of equipment and materials which helps the child feel competent in their use. Furniture designed in scale appropriate to the developmental needs of the child contributes to his feelings of adequacy in the environment. The child's self-identity as an individual of significance in the group is encouraged by the designation of some individual space such as lockers, or hooks for clothing with personal identification marks. Children's creative work should be prominently and attractively displayed at the children's level.

Learning experiences in all areas of the curriculum are enhanced by the arrangement of available furnishings and equipment to provide a functional, attractive, and flexible environment. For example, the development of habitual behavior patterns of cleanliness and orderliness may be furthered by the arrangement of shelf spaces at heights easily reached by five-year-olds. Provision of usable storage may also contribute to feelings of respect for property which is shared with others. The general layout of material and equipment will encourage or deter the child's freedom to engage in creative expression. The skillful application of basic principles of color and design in walls, floors, and furnishings in the room will encourage the development of deep appreciation of aesthetic values in one's surroundings. The arrangement of table settings and chairs for mid-morning snack can make possible the kind of interaction which develops appreciation for others and social skills needed in everyday living. In brief, physical facilities meeting recognized standards, arranged and used creatively, provide a learning environment mutually valuable to teachers and children.

Kindergarten Centers

Centers generally needed to accomplish the goals of the typical kindergarten program are listed below. These centers give opportunities for various learning experiences. Centers should be changed from time to time to foster the development of new interest, concepts and skills. At times, centers or parts of centers may be combined for specific purposes. Therefore, the number of centers will vary from time to time and from room to room. Flexibility of both space and equipment will provide a more purposeful and stimulating environment for young children. Some kindergarten rooms may not include each of these separate areas

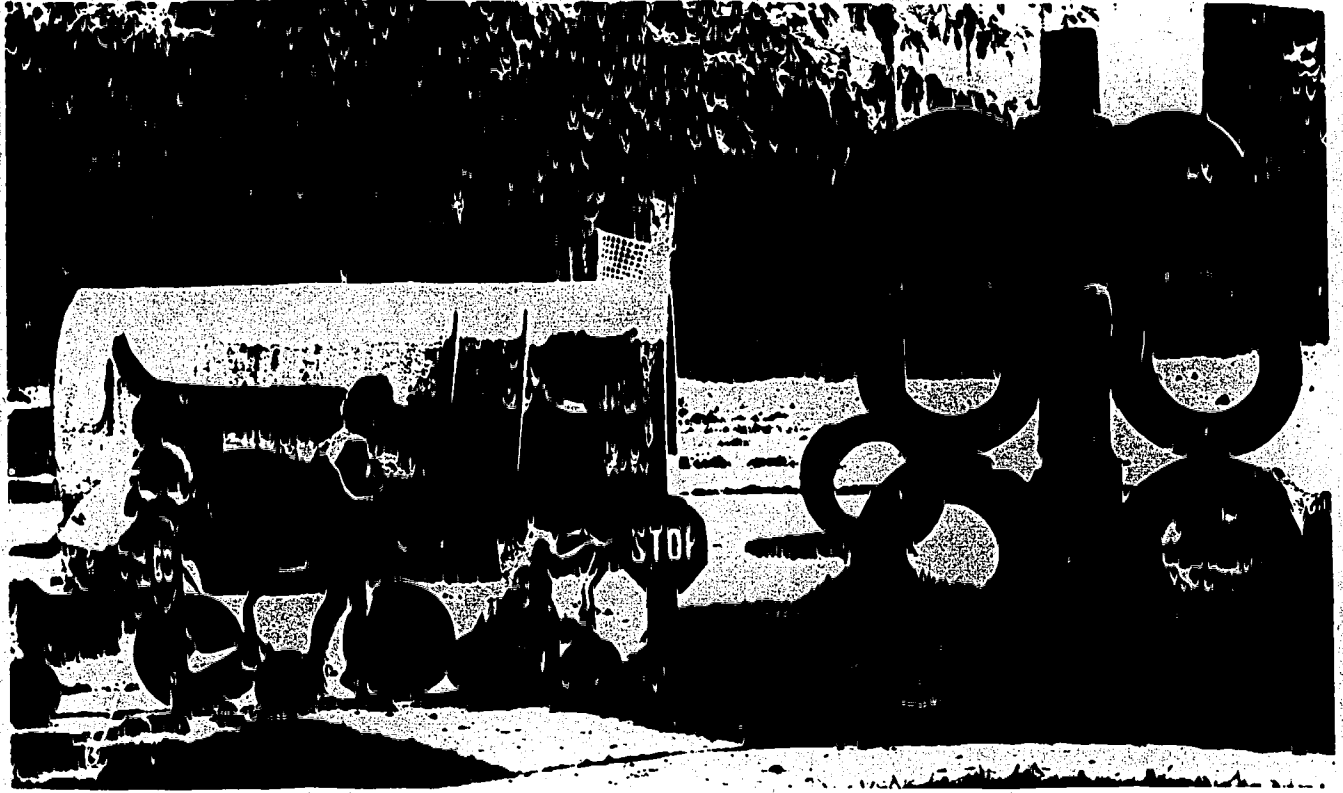
1. **ART CENTER** - Equipment and supplies are grouped in this area to encourage creative activities using a wide variety of art media. Eye-level exhibit space on walls may be provided in this area as well as in other parts of the room.
2. **LIBRARY CENTER** - This area should be in a quiet section of the room with adequate lighting. It should have child-size chairs,



cushions, and a rug so that children may be comfortable while enjoying books. Books should be displayed attractively, changed frequently, and should reflect the best available in children's literature.

Audiovisual materials such as viewers, filmstrips and projectors, tape recorders, and cassettes with earphones could be placed in this area, or they could be placed in a separate center.

3. **MUSIC CENTER** - This area would include groupings of furniture and equipment for listening and performing on various instruments and participating in group singing. A piano may be used as a divider with other instruments arranged nearby.
4. **DRAMATIC PLAY CENTER** - Creative make-believe activities occur in this area where small-scale household furniture is arranged. Dolls and other equipment stimulate free creative expression and the development of the ability to communicate successfully with others. This center's equipment should be changed regularly to reflect the theme and topic being investigated.
5. **BLOCK CONSTRUCTION CENTER** - Blocks of various sizes are used here to encourage manipulatory activities valuable for developing social understandings, abilities, and other goals of learning.
6. **WOODWORKING CENTER** - This area is used for simple construction activities using wood or other materials. It may be located in a room adjacent to the main kindergarten room if space is limited. Adequate and safe storage for tools is important.
7. **SCIENCE** - Tables and shelves including display areas are provided here for equipment such as an aquarium, cages for pets, and other items needed to provide children with opportunities to observe, explore, and experiment.
8. **MANIPULATIVE MATERIALS CENTER** - In this area, manipulative materials are used by individuals and small groups. It may include puzzles, dominoes, checkers, flannel boards with cutouts, and commercial and teacher-made games. The activities should be selected for their value in developing cognitive and psychomotor skills.
9. **QUIET CENTER** - At least one quiet area should be provided for a child who needs time to himself/herself away from the group. This should be a cozy nook where a child can go to be alone with a book, a doll, or just to think. This could contain a rug, pillows, or a rocking chair, possibly separated from the room by a screen or a drape of material.
10. **OUTDOOR CENTER** - Outdoor areas should be an extension of the classroom learning environment. They should be readily accessible so that movement from indoors to outdoors can be spontaneous, while still providing easy supervision by the teachers.



Equipment and Materials

The equipment and materials of the kindergarten will help to determine the kind of program which takes place. Since the program planned by the teacher is the heart of the kindergarten, she must have tools with which to work. Therefore, it is necessary that the kindergarten be provided with materials and equipment which can arouse the child's innate curiosity and stimulate sequential development in self-awareness, motor skills, communication, cognitive ability and social skills. Some materials are commercially prepared while others can be made from discarded items from homes or businesses in the community.

Considerations for Selecting Equipment and Materials:

1. Materials and equipment should be selected for the purpose of enriching and carrying out the goals of the program.
2. Equipment and materials should be sturdy, functional, and able to take the handling of many youngsters.
3. When practical, materials and equipment should be selected which can serve multiple purposes.
4. Equipment and materials should be suited in size and design to the age and maturity of the children who will be using them.
5. Equipment and materials should be easily cleaned, in good repair, painted with nonpoisonous and nonflammable paint.
6. Materials and equipment should be safe and sanitary.
7. Adequate storage space should be available.
8. Good materials cost more at the time of the initial purchase, but will last longer because of their durability.

A suggested list of materials and equipment for the various centers of interest follows. The list is by no means complete and would be reasonable for an enrollment of approximately 20. For selection of materials for purchase, consult bulletins or equipment supply catalogues that specialize in kindergarten materials.

ART:

Aprons, 6 - or old shirts
Brushes, 12" handles
Clay, plasticine, dough
Containers for paint, (plastic desirable)
Crayons, jumbo, mixed colors, 2 doz.
Easels, double, adjustable paint trays with holes for jars, 2

Paint, finger, 3 pts. ea., red, yellow, green, blue, brown, black
Paint, powdered tempera, 5 lbs. ea., white, violet, orange, brown; 7 lbs. ea., yellow, blue, red, black, green, magenta, turquoise; 2 lbs. ea., gold, silver

ART (Cont.):

Paper, butcher, 2 rolls, white and brown with cutting holders
 Paper, finger painting, 3 pkgs., 16" x 22", or glazed shelf paper
 Paper, poster, 3 pkgs., 18" x 24", assorted colors
 Paper, unprinted news, 4 reams 18" x 24" and 24" x 36" , 32 lbs. to ream
 Paste, 4 quarts
 Pipe cleaners, multicolored and white, 1 box
 Teaching scissors, 2 pair
 Scissors,, 2 dozen
 Scissors, left-handed
 Sponges, 1 dozen
 String, 2 balls
 Scraps for collage

MUSIC:

Piano, autoharp or pitch pipe
 Record player with adapter and earphones, records
 Rhythm instruments
 Blank and commercial tapes
 True-tone bars (series of 8 notes)

SCIENCE:

Animal cages
 Bird feeder
 Board mounted with keys, locks
 Box of sensory materials - sound fragrance, texture, weight
 Clock
 Compass (simple)
 Insects and insect cage, cocoons
 Terrarium
 Sand and water table
 Magnets, 2 bar and 2 horseshoe
 Magnifying glass, hand and tripod
 Plants
 Pulleys of various sizes
 Scales and weights - including metric
 Collections, shells, rocks, seeds, etc.
 Thermometer, indoor and outdoor
 Tuning fork
 Wire, electric bulb and batteries
 Aquarium

FAMILY LIFE:

Adult size dishpans
 Chest of drawers
 Doll bed, doll carriage
 Dolls and doll clothes
 Full-length mirror
 Ironing board and iron
 Kitchen appliances
 Small broom, dustpan and mop
 Table and chairs, dishes
 Telephone

BLOCK PLAY:

Boards, 6
 Boards, plain, 12
 Building blocks, solid for dramatic play, 1 set for dramatic play, 1 set unit type (about 500 blocks), straight, circular and arched
 Crane
 Hollow blocks, unit, 12
 Hollow blocks, quadruped unit, 6
 Trucks, cars, airplanes, boats

LIBRARY-AUDIOVISUAL EQUIPMENT:

Books - a minimum of 5 per child, preferably more
 Filmstrips
 Flannel board and materials
 Listening center
 Cassettes and tapes
 Maps - state and city
 Pictures - to coordinate with units of study, holiday, etc.
 Simple globe
 Viewmaster and films

MATHEMATICS:

Cusinaire rods
 Geo-boards and bands
 Kinesthetic numbers - individual
 Kinesthetic numbers - in order
 Matching games (color, shape, size, and number sets, 6-10)
 Number poster boards (for display)
 Pegboards and pegs
 Property blocks (geometric solids)

MATHEMATICS (Cont.):

Scale and weights - including metric
 Uniflex blocks and inset number
 board
 Dominoes (large and small)

LANGUAGE ARTS:

Letters, tactile
 Typewriter
 Chalkboards
 Magic slates
 Games for classification such as
 color, size and shape recognition
 sequence
 Pictures and objects for
 classifying
 Puppets and puppet theater
 Kinesthetic letters - upper & lower case

OUTDOOR PLAY:

Balls (8" to 24")
 Boards
 Climbing apparatus
 Garden tools
 Old car
 Jump ropes - long and individual
 Pieces of sewer pipe (large
 enough for a child to crawl
 through)
 Sandbox with sand toys (needs a
 fitted cover)
 Low balance beams
 Sanded boards, 5' to 6'
 Sawhorses
 Set of steps with platform
 Small ladder
 Tricycles, 2
 Wagons, 2
 Wheelbarrow
 Tires - tractor, automobile, etc.
 Tree trunks

**MANIPULATIVES FOR LARGE MUSCLE
DEVELOPMENT:**

Blocks (hardwood primary set)
 Closed hollow blocks (large
 size, hardwood or plastic)
 Farm Animals (hardwood or plastic)
 People (hardwood or plastic)
 Rocking boat
 Trucks (large riding, and
 medium size)
 Transportation toys (cars, boats,
 airplanes, trains, medium size)

COOKING:

Measuring spoons and cups
 Mixing bowl of varying sizes
 Egg beater
 Cookie cutters
 Minute timer
 Paring knives
 Pots and pans
 Serving trays
 Silverware
 Baking sheets
 Stove or hot plate
 Dishpan
 Dish cloths and dish towels

WATER PLAY:

Bottles, plastic
 Buckets
 Funnels, assorted sizes
 Laundry tubs or water tables
 Tubes and siphoning apparatus
 Plastic aprons
 Measuring containers, including
 metric

WOODWORKING:

Assorted-sized screws, bolts
 Brace and bit
 Clamps
 Hammers (light adult size)
 Handsaws
 Nails, assorted sizes
 One-foot ruler
 Pliers
 Sandpaper
 Scraps of soft wood
 Screwdriver
 Sturdy workbench
 Vise

**MANIPULATIVES FOR SMALL MUSCLE
DEVELOPMENT:**

Dressing squares
 Hardwood nesting blocks
 Lacing beads (large and small beads)
 Lacing cards
 Puzzles (varying degrees of
 difficulty)
 Tinker toys
 Table games (12 different types of
 building and putting together
 games)



Suggestions for Planning the Daily Schedule:

1. The schedule should be based on needs and interests of the group and the individual child, and the resources available.
2. It should be flexible enough to allow creativity but fixed enough to provide continuity, breadth of interests, and the development of feelings of security.
3. It should include time for individual and group activities both indoors and outdoors.
4. It should alternate periods of active and quiet experiences.
5. It should be organized into relatively short time periods for variety and recognition of needs of five-year olds. (Span of concentration, need for activity, etc.)

SAMPLE SCHEDULE

- 8:30 - 8:45 a.m. - Arrival
Attendance
Pledge of Allegiance
Period of Silence (not to exceed 2 minutes)
- 8:45 - 9:00 a.m. - Calendar
Weather
Sharing
- 9:00 - 9:15 a.m. - Group Activity
Language, Fine motor, Science, Social Studies
- 9:15 - 9:30 a.m. - Story time and book selection
- 9:30 - 10:00 a.m. - Activity Centers (free choice)
Clean-up
- 10:00 - 10:15 a.m. - Group Activity
Math
- 10:15 - 10:30 a.m. - Snack
- 10:30 - 10:45 a.m. - Music and Rhythm activities
- 10:45 - 11:00 a.m. - Outside activity (gross motor)
- 11:00 - 11:10 a.m. - Prepare for dismissal

Classroom Management:

The well-managed kindergarten classroom reflects an appreciation of reciprocal rights. "All the available data on classroom management suggests that it is mainly prevention of misbehavior... that is the key to effective classroom management." The kindergarten teacher establishes meaningful expectations to be met in the classroom and serves as a model for the children to follow. When establishing expectations for achievement and behavior, the basic characteristics of the kindergarten child are taken into account. These expectations should be clearly defined and communicated to all who enter the kindergarten classroom.

Learning is likely to be limited when the child is in autocratic, adult-dominated situations. When children are expected to do only what they are told to do, as well as how to do it, with no share in planning and evaluating the results, they have little chance to think, to solve problems, to weigh alternatives, to create, to achieve independence or to develop empathy. Nor do they learn to deal with ambiguity and the rapid rate of change which characterize the modern world. Within the framework of teacher planning and guidance, children profit from helping to define goals, to plan, to manage and to evaluate the work and life of the classroom.

Children acquire self-discipline and self-motivation through the joy of doing, through success and mastery, through self-directing activities such as play (the child's way of working).

Assessment - Evaluating the Child's Progress:

"Evaluation is using procedures that are developmentally appropriate for the children being assessed and that reflect the goals and objectives of the instructional program." "Observations and informal assessments appropriate for kindergarten children are essential to understanding the many aspects of their development. Standardized paper and pencil tests are inappropriate for use with kindergarten children. Effective assessment attempts to insure that deficits are recognized, that remediation is designed, and that strengths are maximized."

The following are appropriate guidelines for assessment procedures for kindergarten children:

1. Assessment should be viewed as an ongoing process of analysis, a method of searching diligently for strengths and weaknesses so that individualized planning is provided for each child's development.
2. Assessment techniques should be used in a caring manner that reflects children's sensitivity to unfamiliar situations.
3. A variety of assessment techniques (appropriate developmental inventories, teacher observations, parent notations, and developmental profiles) should be used in continuous and flexible ways to help teachers plan effective learning situations.
4. Assessment of children's development and learning must consider the "real world" in which the children live. It must recognize home life, cultural setting and learning style orientation."

Parental Involvement:

Parent participation is vital to a successful kindergarten program. A sense of joint responsibility shared by home and school contributes to the optimum growth and development of the child by forming the basis for building continuity in the child's experience.

There are many areas in the kindergarten program where parent participation can enrich and extend each child's school experiences.

I. CONFERENCES

Scheduled conferences to discuss the child's progress and needs are essential in involving the parents as partners in the educational process. This conference also allows for an exchange of information and ideas as well as suggestions for activities that may be done at home.

II. VOLUNTEERS

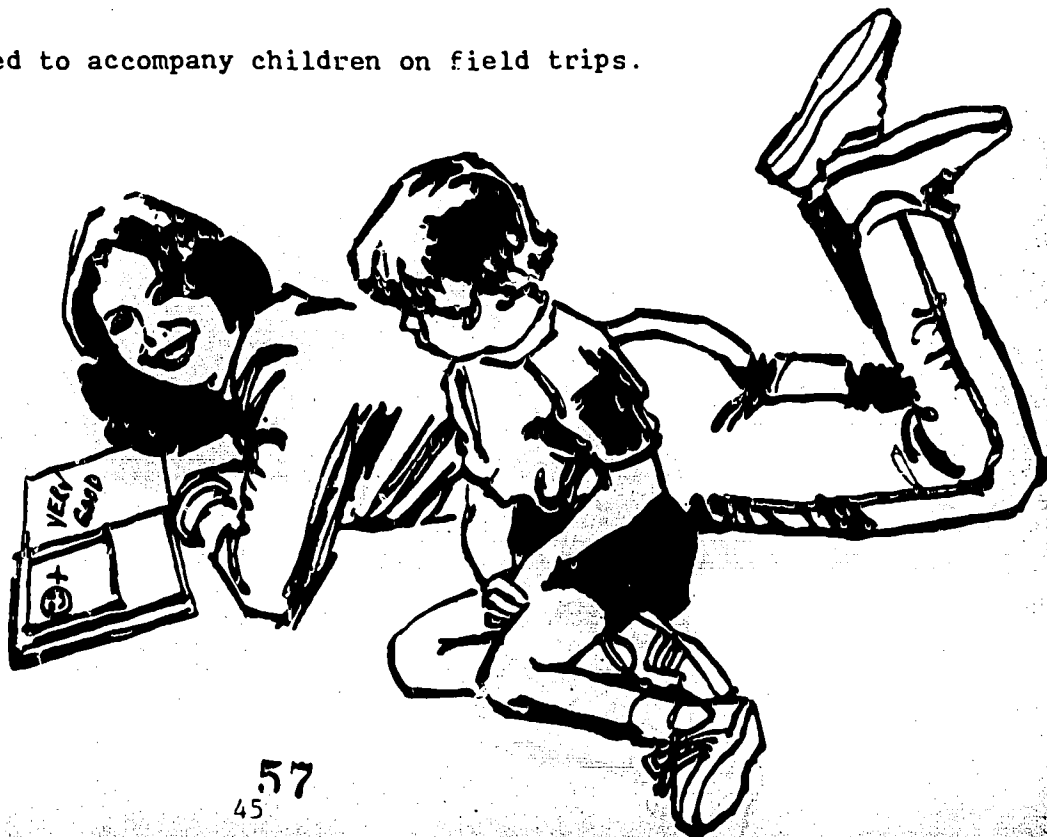
Parents and other adults may be used as workers in the classroom. It is necessary to choose volunteer workers carefully and to orient them to purposes and procedures. The children can gain much from associations with older people and from the skills and information they offer. Parents and other persons greatly enjoy contact with children and learn to understand and support the school program.

III. MENTORS

Adults who have special talents or occupational skills in specialized areas may be used to enhance the curriculum.

IV. CHAPERONES

Parents may be used to accompany children on field trips.



BIBLIOGRAPHY

Almy, Millie. "A Child's Right to Play," Childhood Education, Volume 60, No. 5 (May/June, 1984) :350.

Association for Childhood Education International. The Child's Right to Humane Treatment. A position paper written for the Association of Childhood Education by Helen T. Suchara, Professor of Wayne State University, Detroit, Michigan. April/May 1977. "Fostering a Good Self-Image in Children".

Cassidy, Clara. We Like Kindergarten. New York, Golden Press, 1965.

Childhood Education Journal of the Association for Childhood Education International, Washington, D.C.

Volume 56, No. 3, January 1980

Volume 56, No. 4, February/March 1980

Volume 56, No. 5, April/May 1980

Volume 57, No. 1, September/October 1980

Volume 57, No. 2, November/December 1980

Volume 57, No. 3, January/February 1981

Volume 57, No. 5, May/June 1981

Volume 58, No. 1, September/October 1981

Volume 58, No. 2, November/December 1981

Volume 60, No. 1, September/October 1983

Volume 61, No. 1, September/October 1984

Cohen, Dorothy, and Marguerita Rudolph. Kindergarten and Early Schooling. New Jersey: Prentice Hall, Inc., 1977.

Dimensions. Journal of the Southern Association on Children under Six.

Volume 11, No. 3, April 1983

Volume 11, No. 4, July 1983

Volume 12, No. 3, April 1984

Volume 12, No. 4, July 1984

ERIC Clearinghouse on Educational Management Research Information Service. "Synthesis of Research on Grade Retention and Social Promotion" (March, 1982) :471-473.

Hainstock, Elizabeth G. Teaching Montessori In The Home. New York, Random House, 1968.

International Reading Association, Newark, Delaware. Reading and Pre-First Grade, A Joint Statement of Concerns about Present Practices (committee prepared).

New Jersey Association of Kindergarten Educators. "The Child's Way of Creating," The Kindergarten and Early Years of School, (1977 Edition) :6-16.

Play: Children's Business and a Guide to Play Materials. Association for Childhood Education International. Washington, D.C. 1974.

BIBLIOGRAPHY
Continued

Schinkedanz, Judith A., Mary E. York, Ida Santos Stewart, and Doris A. White. Strategies for Teaching Young Children, Second Edition. New Jersey: Prentice Hall, Inc., 1983.

Strickland, Dorothy S. "On Reading", Childhood Education. Vol. 56, No. 2 (November/December, 1979) :67-74.

Whitehurst, Keturah E. "The Young Child ... What Movement Means to Him," The Significance of the Young Child's Motor Development, (1971) :51-55. (Proceedings of a conference sponsored by the American Association for Health, Physical Education and Recreation [N.E.A.] and the National Association for the Education of Young Children).

Wondering, Exploring, Growing. Association for Childhood Education International. Washington, D.C. 1977.

Young Children. Journal of the National Association for the Education of Young Children. Washington, D.C.
Volume XXVI, No. 1, October 1970
Volume XXVI, No. 3, January 1971
Volume XXVII, No. 1, October 1971
Volume XXIX, No. 2, January 1974
Volume XXIX, No. 4, May 1974
Volume XXIX, No. 5, July 1974
Volume XXX, No. 1, November 1974
Volume XXXX, No. 2, January 1985
Volume XXXX, No. 3, March 1985
Volume XXXX, No. 4, May 1985