

GEOMETRIC SOLIDS

MATERIALS: Ten blue solids: cylinder, cube, ellipsoid, cone, sphere, square pyramid, triangular pyramid, ovoid, rectangular prism and triangular prism

Cards with each of the following geometric figures drawn with a thin blue line: square, rectangle, equilateral triangle, acute-angled isosceles triangle, circle, oval and ellipse.

A basket and a cloth

AIM

DIRECT AIM – refinement of the stereognostic sense

INDIRECT AIM - preparation for mathematics

HOW TO HOLD A SOLID – hold it with both your palms and feel the entire surface

Introduction (Three period lessons)

1. Isolate three contrasting shapes
2. Name it
3. Ask the child to give it, move it and show it when asked
4. Ask the child what is this?

Presentation

1. Ask the child to bring a mat and roll it out
2. Take the child with you to the shelf and introduce the material
3. show them how to carry it
4. ask the child to carry the basket of solids and a cloth to the working mat
5. place the basket of solids on the mat
6. now cover the basket completely with the cloth
7. put your hand inside and feel a solid and name them before taking it Out .
8. do the same for all the 10 solids
9. check for visual confirmation and put it aside
10. put everything into the basket, and mix them up
11. Invite the child to do the activity

exercise one - child own activity as shown in the presentation

GEOMETRIC SOLIDS

Exercise 2- name the shape and ask the child to find it

Exercise 3 fit the solids in the card

- a) Layout the mat, layout the solids
- b) Keep the cards stacked on one side
- c) Isolate one card
- d) See if the shapes fit
- e) Reject the ones that don't fit to the top corner
- f) Repeat the same with the other cards
- g) Invite the child to work with the cards

NOTE: help the child with the ring; stand to check the curvilinear figures

Exercise 4- Pick the card which fits the solid

Then super impose and check with each card as to which one will fit it

If yes bring it to the center

If no place it at right top corner facing down

Pick another solid and invite the child to practice as long as the child wants

CONTROL OF ERROR - visual sense, lies in the Childs perception

LANGUAGE – names of the solids given by means of three period lesson

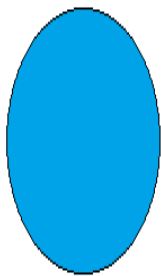
AGE: 3 ½ YEARS

ILLUSTRATION

GEOMETRIC SOLIDS



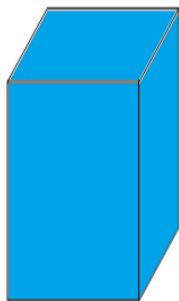
ovoid



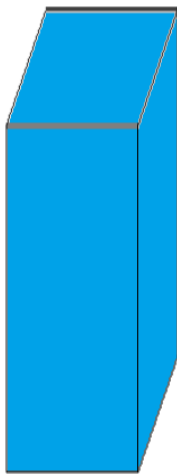
sphere



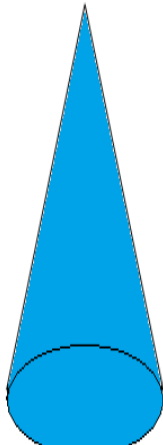
cylinder



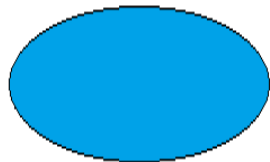
cube



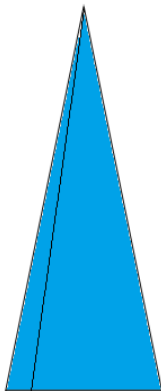
rectangular prism



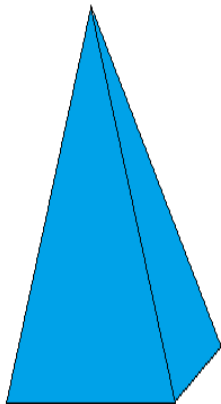
cone



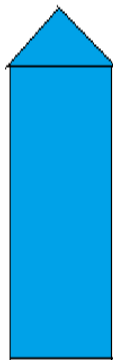
ellipsoid



square pyramid



triangular pyramid



triangular prism