

BINOMIAL CUBE

MATERIALS: 1 Red cube, 3 thick red and black prisms, 1 blue cube and 3 tall blue and black prisms. All the pieces once assembled form the binomial cube $(a+b)^3$. The assembled cube is in a box. A binomial square in matching colors is painted on the lid of the box. A table mat.

AIMS

DIRECT AIM- Building a cube, Refinement of visual discrimination

INDIRECT AIM- Preparation for mathematics

PRESENTATION open the box

- a) Start with the red cube
- b) Arrange all the red prisms first.
- c) Then move on to the blue ones
- d) Once done, dismantle the cube
- e) Invite the child to build the cube.

EXERCISE 1- The child's own activity as shown in the presentation.

EXERCISE 2- Splitting the cube

- a) Build the cube outside the box
- b) Split the cube, both vertically and horizontally and show the pattern
- c) Show the patterns inside each of the layers to the child

EXERCISE 3- Building in layers

- a) Build the bottom layer first and then the top layer
- b) Place the top layer on top of the bottom layer
- c) Invite the child to construct the layers

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CONTROL OF ERROR

a) **PRESENTATION:** It lies in the materials (it acts as a guide)

b) **OTHER EXERCISES:** It lies in the child's perception

LANGUAGE: NONE

AGE: 4 YEARS

ILLUSTRATION

