

## TRINOMIAL CUBE

**MATERIALS:** 1 Red cube, 3 thick red and black prisms, 3 thin red and black prisms, 1 blue cube, 3 tall blue and black prisms, 3 short blue and black prisms, 1 yellow cube, 3 tall yellow and black prisms, 3 short yellow and black prisms and 6 black prisms. All the pieces once assembled form the trinomial cube  $(a+b+c)^3$ . The assembled cube is in a box. A trinomial square in matching colors is painted on the lid of the box. A table mat.

### AIMS:

DIRECT AIM: Building a cube

INDIRECT AIM: Refinement of visual discrimination

### PRESENTATION

Use color, shape, and dimension as reference 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 vertically and horizontally layer by layer
- c) Show the similar patterns inside each of the layers to the child.

### EXERCISE 3- Building in layers

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

### CONTROL OF ERROR

**PRESENTATION:** Lies in the material (Box acts as a guide)

## TRINOMIAL CUBE

**OTHER EXERCISES:** Lies in the child's perception

**LANGUAGE:** none

**AGE:** 4 years

**ILLUSTRATION**

