



**CAPSTONE ENGLISH MEDIUM  
HR. SEC. SCHOOL, SEMRA**

**HOLIDAY**

**HOMEWORK**

**CLASS 6 - CLASS 7**





## **MODEL OF BASIC GEOMETRIC SHAPES**

### **Objective**

Understand properties of 3D shapes and apply mensuration formulas.

### **Materials**

Cardboard, clay, ruler, glue, markers

### **Steps**

Construct 3D models of a cube, cuboid, cylinder, and cone.

Measure and label dimensions (e.g., length, breadth, height, radius).

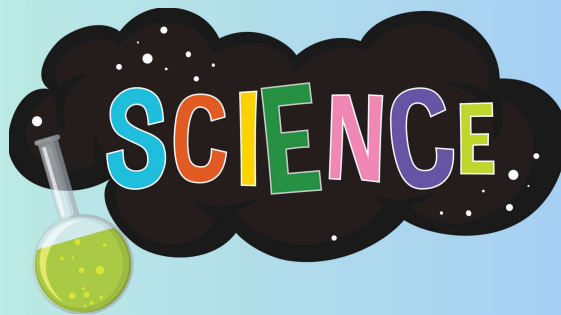
Calculate surface area and volume for each shape using formulas.

Present findings in a chart with diagrams.

### **Learning Outcomes**

Mastery of geometric properties

Application of mensuration formulas



## **WATER PURIFICATION MODEL**

### **Objective**

Demonstrate the process of filtration to purify water.

### **Materials**

Plastic bottle, sand, gravel, charcoal, cotton, muddy water



### **Steps**

Cut the top off a plastic bottle and invert it.

Layer cotton, charcoal, sand, and gravel inside.

Pour muddy water through the filter and collect output.

Compare input and output water clarity.

Document observations and explain filtration.

### **Learning Outcomes**

Understanding separation techniques

Practical application of scientific concepts



## ***MODEL OF EARTH'S LAYERS***

### **Objective**

Visualize and understand Earth's internal structure.

### **Materials**

Clay (different colors), paper-mâché, knife, labels

### **Steps**

Shape a spherical model using clay or paper-mâché. Cut a cross-section to show crust, mantle, outer core, inner core.

Use different colors for each layer and label them. Write a brief description of each layer's composition and thickness.

Present the model with a short explanation.

### **Learning Outcomes**

Knowledge of Earth's structure

Enhanced geographical understanding

# ENGLISH

## Objective

Analyze characters from any story given in the book and express findings creatively.

पुस्तक में दी गई किसी भी कहानी के पात्रों का विश्लेषण करें और निष्कर्षों को रचनात्मक ढंग से व्यक्त करें।



# हिन्दी

## Objective

Summarize a Hindi story and present it visually.

एक हिंदी कहानी का सारांश बनाइये और उसे दृश्यात्मक रूप में प्रस्तुत कीजिये।

# संस्कृत

## Objective

Summarize a story and present it visually.

एक कहानी का सारांश बनाइये और उसे दृश्यात्मक रूप में प्रस्तुत कीजिये।