

Chapter 12 : The Science Of Light, Shadow And Reflection

Curricular Goal :

CG-2: Explores the physical world around them in scientific and mathematical terms.

CG-7: Communicates questions, observations and conclusions related to science.

Competencies :

C-2.4: Demonstrates rectilinear propagation of light from different sources, verifies the laws of reflection through manipulation of light sources and objects and the use of apparatus and artefacts.

C-7.3: Represents real-world events and relationships through diagrams and simple mathematical representations.

Learning Outcomes :

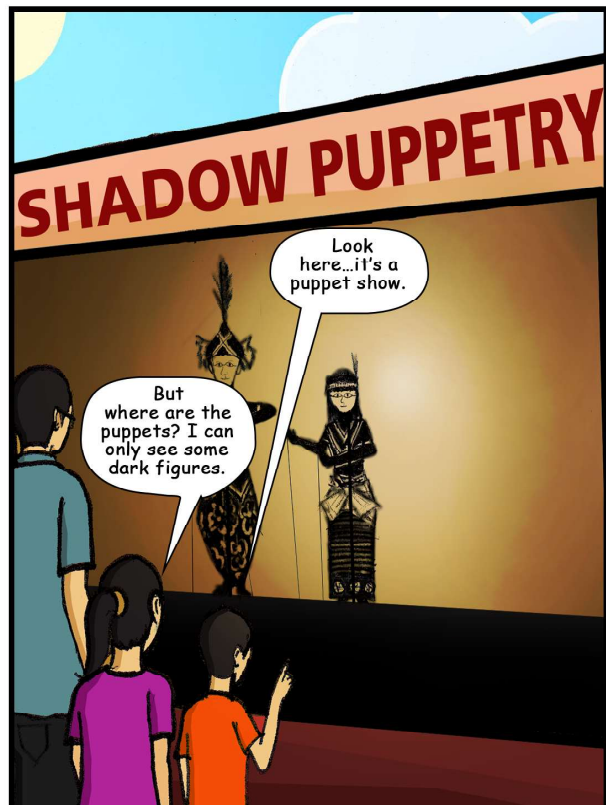
1. Explain the processes of formation of shadows and rectilinear propagation of light.
2. Engage in activities to observe shadows of different shapes and sizes, and rectilinear propagation of light from different sources - natural, artificial and reflecting surfaces"
3. Represents real-world events in diagrammatic form

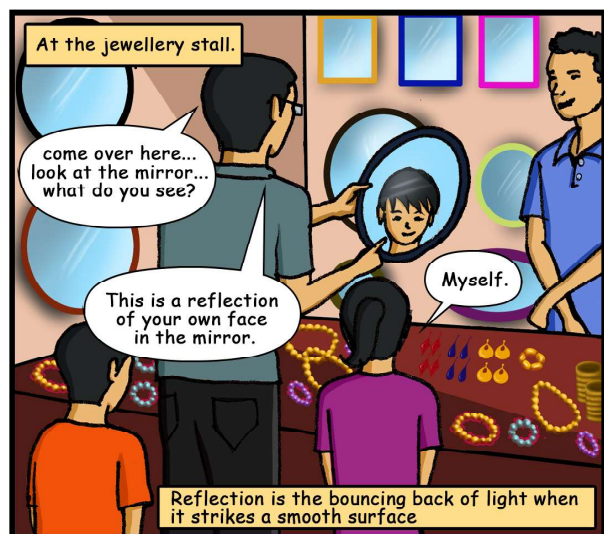
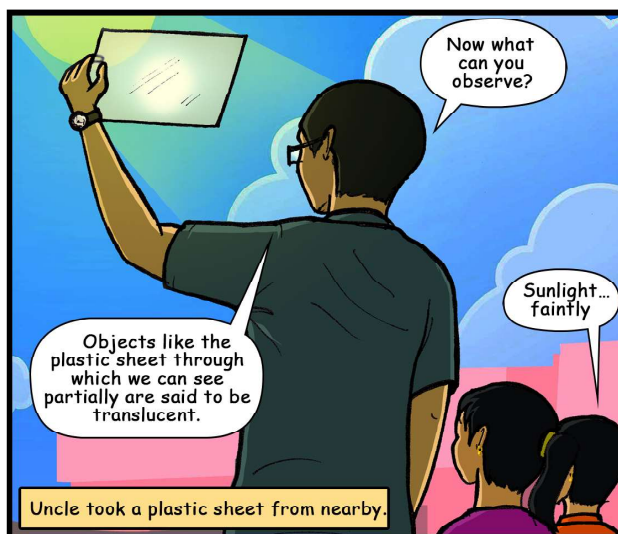
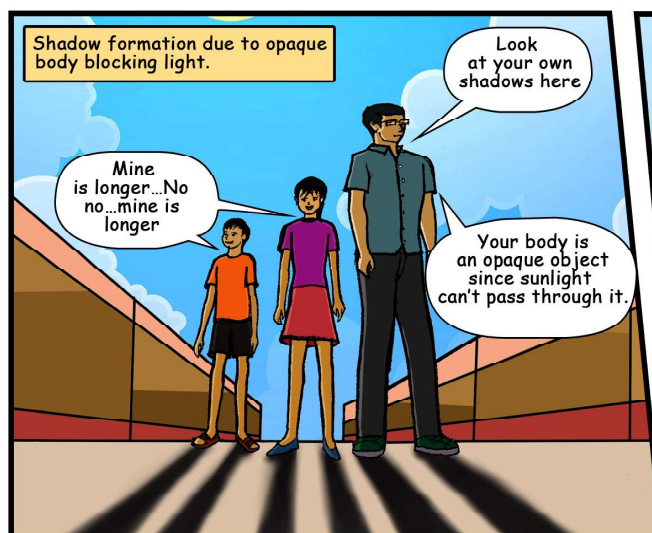
STORY 12: THE SCIENCE OF LIGHT, SHADOW AND REFLECTION

Bright sunny day.....in a village fair.



All the children are happy to be at the fair.







Activity

1. Collect different objects from your surroundings and identify whether it is opaque, transparent or translucent.
2. Let a friend hold a mirror and illuminate it from different positions using a torch. See how light gets reflected from the mirror. Represent your observation in a diagrammatic form. Do this activity in a dark room.