

## 5 E's Lesson plan: Prisms reveal colors in light

### Engagement:

Teacher will use a wristwatch to reflect a patch of light around the classroom (as, no doubt, some of the students do). The patch of light is still white light. Next, the teacher will use a prism to reflect small rainbows around the room. What do the children think about the difference between the two reflections of light? What makes the difference?

### Exploration:

Students will be arranged in groups with the following materials:

Tinted plastic (of several colors)

Prisms

Clear plastic

Opaque plastic

Students will be encouraged to play with the materials and discover/record what differences they can find in what they see.

### Explication:

A representative student from each group will report on their findings. Teacher will provide the explanation that all the colors are in white light and the colors we see are the ones reflected back to us from an object.

### Elaboration:

Students will be asked to go around the room and choose objects of interest. Then, the students should agree on what color is being reflected back to them from the object and what colors must, then, NOT be reflected back.

### Explication again:

A representative student from each group will report on their findings. Teacher will provide the explanation that colors NOT seen are absorbed by objects.

### Evaluation:

Students will be given a picture of a tree, flower, and dog. They will, in groups, create a chart of what colors are absorbed by each object and which are reflected back.

### Inquiry level 2

Problem defined by teacher

Problem solving methods chosen by students

Tentative solution determined by students