# THE COLOURS OF LIGHT

STUDENT BOOK Chapter 4, page 96

### Goal

Observe the different colours that make white light.

#### **Observation criteria**

- 1. What is an electromagnetic wave?
- 2. What is light?
- 3. What colours make white light?

## **Materials**

- · ray box
- · triangular prism (transparent)
- · sheet of white paper
- · pencil
- eraser
- coloured pencils (optional)

#### **Procedure**

- 1. Place the ray box on a flat surface and turn it on.
- **2.** Position the prism so a ray of light grazes one tip of the triangle—instead of passing perpendicular to one side of the triangle.
- **3.** When colours appear, place the sheet of paper vertically about 30 cm to 50 cm from the prism.
- I 4. Observe.
  - 5. Note all colours obtained in order of appearance.
  - 6. Put away materials.



Name:	Group:	Date:
Observations		
Illustrate your observations in the	box below. Give the box a title.	
Title:		
Reflecting on your obser		
1. Do your observations help yo	u to better understand the comp	osition of white light?
2. What replaces a prism in a ra	inbow?	
3. How could you improve the p	rotocol for this lab?	