

Chapter 8

Student's Book

Practice Worksheet, pp. 119–120

1. False, True
2. A
3. speed, direction
4. refracted, water, air

Activity Book

Word Whizz, p. 75

Across

2. mediums
5. refraction

Down

1. reflected
3. plane
4. ray

Let's Map It!, p. 76

Reflection of light happens when light bounces off a surface.

A plane mirror has a smooth surface. A ray of light changes in direction as it is reflected from a plane mirror. The ray of light bounces off the surface at the same angle that it reaches the surface.

Refraction of light happens when light bends as it travels from one medium to another.

Light can travel through a translucent or transparent medium.

A ray of light changes in speed and direction as it passes from one medium to another.

Let's Review, pp. 77–78

1. reflects
2. (a) B
(b) The ray of light should bounce and change in direction after it reaches the surface of the mirror.
3. The light bends or is refracted differently in the oil and water.
4. Reflection; Refraction; Refraction; Refraction
5. refraction