Name Date Class



 **LESSON 3**

**Key Concept Builder**

***Refraction and Lenses***

**Key Concept** What happens to light as it moves from one transparent substance to another?

**Directions:** *Use the diagram to answer each question or respond to each statement on the lines provided. The
arrows represent light rays moving through a medium.*



medium = water

C.

medium = air

medium = air

B.

A.

Normal to the
boundary

**1.** What is meant by refraction of light?

**2. Name** the two places in the diagram where refraction occurs.

**3. Explain** what is meant by the index of refraction.

**4.** What happens to the speed of the light when it travels between transparent substances
such as air and water? Why?

**5.** Why does the arrow labeled B show a different direction from the arrows labeled A and C?

**6. Explain** why the light in the diagram (arrow C) refracts away from the normal.

Light **53**