

**Directed Reading B** *continued*

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**18.** To the human eye, the shortest wavelengths of visible light appear as the color \_\_\_\_\_.

**19.** The range of colors of visible light is called the \_\_\_\_\_.

**20.** Name the seven colors of the visible spectrum.

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**ULTRAVIOLET LIGHT**

**21.** In what way do ultraviolet waves differ from visible light waves?

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**22.** Name four ways that the body can be harmed by overexposure to ultraviolet light.

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**23.** Name two things that people can do to protect themselves against overexposure to ultraviolet light.

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**24.** Describe two good effects of ultraviolet light.

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## Directed Reading B

### Section: Interactions of Light with Matter (pp. 82–89)

1. What does the special layer of cells in the back of a cat's eyes do?

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#### REFLECTION

2. How does light travel when it travels through a material that doesn't change?

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3. When light waves bounce off an object, \_\_\_\_\_ happens.

4. What does the law of reflection state?

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5. The arrival of a beam of light at a surface is called \_\_\_\_\_.

Match the correct description with the correct term. Write the letter in the space provided.

\_\_\_\_\_ 6. line perpendicular to a mirror's surface

\_\_\_\_\_ 7. angle between the reflected beam and the normal

\_\_\_\_\_ 8. beam of light reflected off a mirror

\_\_\_\_\_ 9. beam of light traveling toward a mirror

\_\_\_\_\_ 10. angle between the incident beam and the normal

11. What is the difference between regular reflection and diffuse reflection?

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