| HOW IS THE | special layer of cells in the back of a cat's eyes useful? |
|--|--|
| twice. True | o. 73) look in a mirror you see light that has been reflected or False? (Circle one.) e law of reflection? |
| | |
| perpe | ure 14, the is the line ndicular to the mirror's surface. kind of surface allows you to see your reflection? |
| **** | |
| Absorpti Decide if e | on and Scattering (p. 74) each of the following refer to scattering or absorption. |
| Absorpti Decide if e | on and Scattering (p. 74) each of the following refer to scattering or absorption. α scattering and α for absorption. |
| Absorpti Decide if e Write S for | on and Scattering (p. 74) each of the following refer to scattering or absorption. |
| Absorpti Decide if 6 Write S for 6 | on and Scattering (p. 74) each of the following refer to scattering or absorption. e scattering and A for absorption. EM waves transfer energy to particles in matter. Particles of matter that have absorbed energy release light |
| Absorpti Decide if 6 Write S for 6 7 8 | on and Scattering (p. 74) each of the following refer to scattering or absorption. e scattering and A for absorption. EM waves transfer energy to particles in matter. Particles of matter that have absorbed energy release light energy. On a dark night, you can see objects outside of a flash- |
| Absorpti Decide if 6 Write S for 6 7 8 9 | on and Scattering (p. 74) each of the following refer to scattering or absorption. e scattering and A for absorption. EM waves transfer energy to particles in matter. Particles of matter that have absorbed energy release light energy. On a dark night, you can see objects outside of a flash-light beam. |
| Absorpti Decide if e Write S for 6 7 8 9 | each of the following refer to scattering or absorption. Escattering and A for absorption. EM waves transfer energy to particles in matter. Particles of matter that have absorbed energy release light energy. On a dark night, you can see objects outside of a flashlight beam. The sky appears blue. Air particles absorb the energy from light, making it less bright. |
| Absorpti Decide if e Write S for 6 7 8 9 10 Refractio | each of the following refer to scattering or absorption. Escattering and A for absorption. EM waves transfer energy to particles in matter. Particles of matter that have absorbed energy release light energy. On a dark night, you can see objects outside of a flashlight beam. The sky appears blue. Air particles absorb the energy from light, making it less bright. |
| Absorpti Decide if e Write S for 6 7 8 9 10 Refractio 11. Refract | cach of the following refer to scattering or absorption. It scattering and A for absorption. EM waves transfer energy to particles in matter. Particles of matter that have absorbed energy release light energy. On a dark night, you can see objects outside of a flash-light beam. The sky appears blue. Air particles absorb the energy from light, making it less bright. In (p. 75) ion is caused by a variation in the of light as it passes from one |
| Absorpti Decide if e Write S for 6 7 8 9 10 Refraction 11. Refraction | cach of the following refer to scattering or absorption. It scattering and A for absorption. EM waves transfer energy to particles in matter. Particles of matter that have absorbed energy release light energy. On a dark night, you can see objects outside of a flash-light beam. The sky appears blue. Air particles absorb the energy from light, making it less bright. In (p. 75) ion is caused by a variation in the of light as it passes from one In to another. |
| Absorpti Decide if e Write S for 6 7 8 9 10 Refractio 11. Refract medium 12. The special | each of the following refer to scattering or absorption. It scattering and A for absorption. EM waves transfer energy to particles in matter. Particles of matter that have absorbed energy release light energy. On a dark night, you can see objects outside of a flash-light beam. The sky appears blue. Air particles absorb the energy from light, making it less bright. In (p. 75) ion is caused by a variation in the of light as it passes from one in to another. eed of light traveling through glass is slower than the |
| Absorpti Decide if e Write S for 6 7 8 9 10 Refractio 11. Refract medium 12. The spen | cach of the following refer to scattering or absorption. It scattering and A for absorption. EM waves transfer energy to particles in matter. Particles of matter that have absorbed energy release light energy. On a dark night, you can see objects outside of a flash-light beam. The sky appears blue. Air particles absorb the energy from light, making it less bright. In (p. 75) ion is caused by a variation in the of light as it passes from one In to another. |

| a long wavelength is bent more than light with a short wave- | |
|---|---|
| length. True or False? (Circle one.) | 2 |
| Diffraction (p. 77) | ì |
| 15. The of waves around barriers and through openings is called diffraction. | 1 |
| 16. In order for the greatest amount of diffraction to occur, an | |
| opening must be the same size orthan the wavelength of the light passing through it. | |
| 17. A greater amount of diffraction occurs when light passes the a narrower opening. True or False? (Circle one.) | nrough |
| Interference (p. 77) | |
| 18. The wave that results from interference has a greater amplitude than the individual we that combined to form it. | aves |
| 19. The result of interference is dimmer light. | |
| 20. Why do you not see constructive and destructive interfered white light? | nce of |
| Use the information in Section 3 to answer the following quest Choose the word in Column B that best matches the definition example in Column A, and write your answer in the space pro- | n or |
| | 1 (1993) Assert (1997) (1997) 1 (1997) |
| 21. transfer of energy from light waves to particles of matter 22. bending of light passing through an opening 23. bending of light passing into a different material 24. a wave bouncing off an object 25. waves overlapping and combining 26. the release of light energy by particles of matter | a. interference b. scattering c. absorption d. diffraction e. refraction f. reflection |
| that have absorbed energy | |

14. Color separation occurs when light is refracted because light with

Review (p. 78)

Now that you've finished Section 3, review what you learned by answering the Review questions in your ScienceLog.