## Physical Principles in Living Systems Infrared, Visible Light, & Ultraviolet

Name: Period:

Use Chapter 3, Section 1 of your textbook to answer the questions below.

Infrared Waves (p.78)	
1. The sun makes you warm because it gives off	waves.
<ul> <li>2. Which of the following statements about in a. Infrared waves from the sun warm Earth.</li> <li>b. Only the sun gives off infrared waves.</li> <li>c. Warm objects give off more infrared waves.</li> <li>d. All things give off infrared waves.</li> </ul>	
3. The amount of infrared waves an object gire.  a. the wave's speed and weight  b. the wave's frequency and surface proper	c. the object's weight and temperature
4. Look at the dog in Figure 4. Which part of the do	g's head has the highest temperature?
Visible Light (p.78)	
5. As humans, we can see	light.
6. Plants use visible light during the process of	
Visible Light from the Sun (p.79)	35
7. White light is made when visible light of all wavele	engths is
8. Light from lamps is	
Colors of Light (p.79)	
9. We can see different	because cells in our eyes react differently to different
of light.	
10. The range of colors we can see is called the	·
11. What do the capital letters in the name F a. the last letter of each color of visible light	c. the first letter of each type of EM wave

turn over for more questions

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a. vitamin A

b. vitamin B

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Ultraviolet Light (p.80)	
12. Ultraviolet light is made of	wavelengths than visible light.
Bad Effects (p.80)	
13. You can get a	_ if you are exposed to too much ultraviolet light.
15. How can you protect your skin from a. Wear a short-sleeved shirt.	c. skin cancer d. breast cancer  m getting too much ultraviolet light? c. Use sunscreen with a high SPF.
<ul><li>b. Use sunscreen without an SPF.</li><li>16. True or False? You can get a sunburn on</li></ul>	·
Good Effects (p.81)	
	ffect of ultraviolet light? od. c. Ultraviolet light attracts bacteria. eyes. d. Ultraviolet light converts light energy into chemical energy.
18. What do skin cells produce when t	they are exposed to ultraviolet light?

c. vitamin C

19. Look at Figure 9. What does Vitamin D help your body to absorb?

d. vitamin D

