## Physical Principles in Living SystemsName:Light Review QuestionsPeriod:Use Chapter 3 to help you answer the review questions below about light.

	1. What is a wave that sound wave	nat consists of chang b. water wave	ging electric and m c. surface wave		called? romagnetic wave
	2. Which of the follo	wing do concave ler	nses and convex le		· ·
	a. illumination	b. transmission	c. refraction	d. absorption	
	3. Which of the follo a. radio waves	wing make up only a b. X rays c.	a small portion of t visible light waves		netic spectrum? ed waves
	a. Taulo waves	D. A Tays C.	visible light waves	u. IIIII ai	eu waves
		ravel in straight lines			
		al light travels throug al light travels throug		10	
		al light travels throug al light travels throug	,	je	
		al light travels throug			
		to see objects that			
		t light that is transmi		S.	
		t light that is emitted t light that is reflecte			
		t light that is absorbe			
		to see objects that			
		t light that is absorbe			
	-	t light that is emitted	•		
		t light that is reflecte t light that is transmi		S.	
	7. Which colors of light	ght do you see wher	n you look at an op	aque object?	
	a. only the colors t		•		are transmitted
	b. only the colors to	hat are absorbed	d. only t	the colors that	are refracted
	8. Which of the follo a. convex lens	wing do a magnifyin b. concave lens	g glass and the hu c. shutter	ıman eye use d. aperture	to form images?
	9. What happens wh	nen light travels thro	ugh a medium tha	t changes?	
	a. The light is trans		c. The light is al		
	b. The light refracts		d. The light disa	ppears.	
Match	the correct definitior	n with the correct ter	m. Write the letter	in the space p	rovided.
	10. bouncing of light	t waves off an object	t		a. absorption
	11. interaction of light with matter that causes light to change direction			b. reflection	
	12. arrival of a bean	n of light at a surface	)		c. scattering
	13. transfer of light	energy to particles o	f matter		d. incidence

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Match the correct definition with the correct term. Write the letter	r in the space provided.					
14. range of colors of light	a. electromagnetic wave					
15. type of wave that makes up light	b. electromagnetic spectrum					
16. visible light of all wavelengths combined	c. white light					
17. entire range of electromagnetic waves	d. visible spectrum					
Use the terms from the following list to complete the sentences lens infrared waves transmission	below. ultraviolet light visible light					
18. An EM wave that can cause sunburn is called						
19. Light that you can see is called						
20. The passing of light through matter is called	·					
21. A transparent object that forms an image by refracting light is	s called a					
22. EM waves that warm Earth are called						
Use the terms from the following list to complete the sentences law of reflection refraction convex lens						
23. The angle of incidence is equal to the angle of reflection, according to the						
24. A transparent object that is thicker in the middle than at the e	edges is called a					
25. The bending of a wave as it passes at an angle from one me	edium to another is called					
26. A transparent object that is thinner in the middle than at the e	edges is called a					