Skills Worksheet

Directed Reading B

Section: Refraction (pp. 90–97) REFRACTION AND MEDIA

1. Refraction happens when
a. a medium's density does not change.
b. light follows the law of reflection.
c. the wave changes light energy into chemical energy.
d. the medium that it travels through changes.
2. A substance through which a wave can travel is called a(n)
3. The bending of a wave as the wave passes at an angle from one medium to
another is called
4. Give an example of an optical illusion that can be caused by refraction.
5. Light waves withwavelengths bend more than
light wave with wavelengthe
light waves with wavelengths.
6. When white light separates into different colors during refraction and sunlight
is refracted by water drops, a(n)forms.
LENSES AND REFRACTION OF LIGHT

- _____ **7.** How does a lens form an image?
 - **a.** The lens reflects light.
 - **b.** The lens bends light.
 - **c.** The lens absorbs light.
 - **d.** The lens transmits light.

Name	Class	Date
Directed Reading B continued		
Aatch the description with the cor	rect term. Write the lette	er in the space provided
8. transparent object that forms an image by refracting light		a. focal length b. lens
 9. point at which light beams cross after passing through a lens 		c. focal point
10. distance between the le	ns and focal point	
Match the correct description with below.	the correct term. Write	the letter in the space
11. is thicker in the middle	than at the edges	a. convex lens
12. is formed when an object is less than 1 focal length from a convex lens		b. virtual image c. real image
13. is formed when an obje 2 focal points from a co		
14. How do a real image and a virt	ual image of an object	differ?
15. How are a magnifying glass and	d the human eye simila	r?
	, , , , , , , , , , , , , , , , , , ,	
16. Which two parts of the eye refi	act light?	
	C	
17. Name two animals whose eyes eye does.	process images differe	ntly than the human
18. What is the difference between	a concave lens and a c	convex lens?

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