

CHAPTER REVIEW**Chapter 2****Light and Vision****I. Vocabulary Review**

In the blank, write the word or words that best complete the sentence.

1. A brick wall that does not allow any light through it is _____ .
2. The light you see coming from the moon is _____ light from the sun.
3. Light that travels through a _____ material produces fuzzy images.
4. When an object blocks light, a _____ is produced.
5. If you mix all three primary _____ in equal amounts, all colors of light are absorbed.
6. Rain produces a rainbow because light is _____ as it passes through a raindrop.
7. The rods and cones found in the retina of the eye are called _____ .
8. Isaac Newton observed a pattern consisting of seven colors of light called a _____ .
9. Under a microscope you can observe that the pages of a book are rough. This explains why the pages give off a _____ reflection.

II. Concept Review

If the underscored word or phrase makes the sentence true, write "TRUE" in the space provided. If the underscored word or phrase makes the sentence false, write the correct term or phrase in the space provided.

- _____ 10. Diffuse reflection occurs when light is reflected in many directions from a rough surface such as a grassy area.
- _____ 11. Reflection occurs when light changes speed as it passes from one material to another.
- _____ 12. The separation of white light into its component colors produces what is called a mixture.
- _____ 13. If you look down at a penny that is on the bottom of a cup filled with water, the penny appears closer than it would if there were no water in the cup.
- _____ 14. A green leaf reflects all of the colors except green.
- _____ 15. The part of the eye that controls how much light enters the eye is the pupil.
- _____ 16. The rods in the retina can detect colors of light.
- _____ 17. Translucent materials make good windshields for cars.

Chapter Review 2 (continued)

In the blank at the left, write the letter of the choice that best answers the question.

- _____ 18. The rods in the retina are most sensitive to _____.
- | | |
|---------------------------|--------------------------|
| a. red and yellow light | c. light and dark |
| b. green and yellow light | d. blue and violet light |
- _____ 19. The iris is _____.
- | | |
|---------------------------|-------------------------------|
| a. a tiny ring of rods | c. a tiny ring of cones |
| b. a ring of tiny muscles | d. another name for the pupil |
- _____ 20. The primary colors of light are _____.
- | | |
|----------------------------|--------------------------|
| a. blue, green, and red | c. red, blue, and yellow |
| b. violet, blue, and green | d. red, blue, and violet |

III. Skills/Process Review

In the blank at the left, write the letter of the choice that best answers the question.

- _____ 21. In Figure 1, at what points is reflection occurring?
- | | |
|---------|---------|
| a. A, B | c. B, C |
| b. A, C | d. C, D |
- _____ 22. At what points in Figure 1 is refraction occurring?
- | | |
|---------|---------|
| a. A, B | c. B, D |
| b. B, C | d. C, D |
- _____ 23. Which medium in Figure 1 would permit light to travel through it at the fastest speed?
- | | |
|-----------|----------|
| a. mirror | c. air |
| b. glass | d. water |

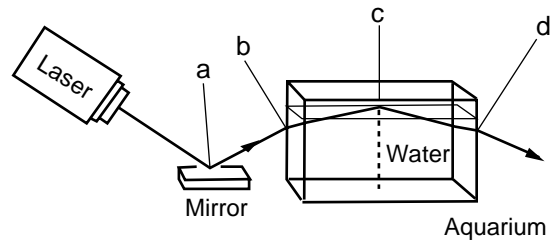


FIGURE 1

IV. EYV Review

24. Science and Society: Light and Color in Our Lives How could you change your room to

encourage people to be calm and quiet? _____
