

Choose a word from the box below to complete each sentence correctly.

reflecting	absorbed	take up	transmission	refracted
opaque	emitted	reflected	medium	absorption

1. When light enters a transparent substance, it is called \_\_\_\_\_.
2. A \_\_\_\_\_ beam of light that travels in a straight line \_\_\_\_\_.
3. A \_\_\_\_\_ is the material a wave travels through.
4. Part of the \_\_\_\_\_ of light is a different wavelength.
5. Only some light can pass through \_\_\_\_\_ material. Absorption is the rate at which electromagnetic waves become shorter.
6. Light \_\_\_\_\_ material, it gives us the color we see. The amount we see is called \_\_\_\_\_.
7. No light can pass through \_\_\_\_\_ material. An object with this property is called \_\_\_\_\_.
8. The color we see is called \_\_\_\_\_ by physics.
9. The speed of light is the speed of matter. Light travels \_\_\_\_\_ by an object.
10. Energy \_\_\_\_\_ light changes speed in different \_\_\_\_\_.

Write your responses in the blank spaces.

11. When a light source emits light waves, what color does it appear to be? \_\_\_\_\_
12. What color does white light contain, blue or red? \_\_\_\_\_
13. What percentage of an object that is opaque \_\_\_\_\_
14. What percentage of an object that is translucent \_\_\_\_\_
15. What percentage of an object that is transparent \_\_\_\_\_

Write a sentence or sentences in each blank space below which show light behavior is described.

16. \_\_\_\_\_ From an object in the room and passes a window. (What percentage of light waves is just going through the window? Do you think it is all light or light & matter?)
17. \_\_\_\_\_ The speed of light is constant. (What is the speed of light? Is it constant?)
18. \_\_\_\_\_ When a wave enters a new medium, light waves change their speed. (What is the speed of light? Is it constant?)