

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. It is called \_\_\_\_\_.
7. No light can pass through \_\_\_\_\_ material. An object which allows only part of the electromagnetic spectrum \_\_\_\_\_.
8. The color we see is the \_\_\_\_\_ of the spectrum.
9. The eye perceives the color of matter by the \_\_\_\_\_ of an object.
10. During \_\_\_\_\_ light changes speed and direction.

Write your responses in the blank spaces.

11. "When a light absorbed light wave, what color does it appear to be?" \_\_\_\_\_
12. "When a light reflects all light waves, what color does it appear to be?" \_\_\_\_\_
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 the light is just going through the window? Do you think it is all light that is passing through?"
17. \_\_\_\_\_ The sunlight get a window that is not going through the window.
18. \_\_\_\_\_ When a wave of light is moving through a window, you think that it is all light that is passing through.