

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 in a vacuum is constant and is called _____ by an object.
10. During _____ light changes speed continuously.

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 make, when it is dispersed? _____
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 that is passing?)
17. _____ The speed of light is constant, but it is different in different media.
18. _____ When a wave enters a new medium, the angle of refraction is different from the angle of incidence.