

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 called _____ by physics.
9. The eye perceives the color of matter by the _____ of an object.
10. During _____ light changes speed continuously.

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 state light behavior in everyday life.

16. _____ From our studies in Science and physics, we realize that "When a person stands under a hot sun, the person's body gets warmer. This is because the person's body absorbs the heat energy from the sun's rays."
17. _____ The people get a rainbow when there is a rain storm in the sky.
18. _____ When a person stands under a bright light, the person's body gets warmer. This is because the person's body absorbs the heat energy from the light.