

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 _____ through _____ material. It goes in the same direction but cannot see through.
7. No light can pass through _____ material. An object is the same size as the electromagnetic waves.
8. The color we see is the color _____ by particles.
9. The eyes perceive the color of matter by the _____ by an object.
10. Energy _____ light change speed in vacuum.

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 reflect 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 drawing.

16. _____ From the picture it is obvious that _____ is visible. "What percentage of the light wave is just going through the object that is shown in the picture?"
17. _____ The picture of a rainbow shows _____ light _____.
18. _____ When a wave of light _____ through _____, the light _____.