

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

reflecting	absorbed	take up	transmission	refracted
opaque	emitted	reflected	scatter	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 amount of heat energy through \_\_\_\_\_.
4. Heat differs \_\_\_\_\_ of light in a different wavelength.
5. Only some light can pass through \_\_\_\_\_ material. (Absorption) The other part of the electromagnetic wave is being absorbed.
6. Light \_\_\_\_\_ through \_\_\_\_\_ material. (Transmission) The other part of the electromagnetic wave is being absorbed.
7. No light can pass through \_\_\_\_\_ material. (Absorption) The other part of the electromagnetic wave is being absorbed.
8. The other part of the electromagnetic wave is being \_\_\_\_\_.
9. The other part of the electromagnetic wave is being \_\_\_\_\_ by an object.
10. Energy \_\_\_\_\_ light change speed/direction.

Write your responses in the table below:

11. What is light absorption? Light \_\_\_\_\_ when it is \_\_\_\_\_ by an object or \_\_\_\_\_.
12. What is light reflection? Light \_\_\_\_\_ when it is \_\_\_\_\_ by an object or \_\_\_\_\_.
13. What is refraction? Light \_\_\_\_\_ when it is \_\_\_\_\_ by an object or \_\_\_\_\_.
14. What is scattering? Light \_\_\_\_\_ when it is \_\_\_\_\_ by an object or \_\_\_\_\_.
15. What is emission? Light \_\_\_\_\_ when it is \_\_\_\_\_ by an object or \_\_\_\_\_.

Write a short paragraph explaining the relationship between visible light behavior in absorption.

16. \_\_\_\_\_ From an object in the sun and ground is visible. (Absorption) The other part of the electromagnetic wave is being absorbed. The other part of the electromagnetic wave is being \_\_\_\_\_.
17. \_\_\_\_\_ The other part of the electromagnetic wave is being \_\_\_\_\_.
18. \_\_\_\_\_ When an object is heated, it emits energy in the form of light. The other part of the electromagnetic wave is being \_\_\_\_\_.