

Name _____

Light

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

| | | | | |
|------------|------------|-----------|-------------|-------------|
| reflection | absorbed | light ray | translucent | color |
| opaque | refraction | reflected | medium | transparent |

- When light strikes an object and bounces off, it is called _____.
- A narrow beam of light that travels in a straight line is a _____.
- A _____ is the material a wave travels through.
- Each different _____ of light is a different wavelength.
- Only some light can pass through _____ material. Objects on the other side of the material can be seen but not clearly.
- Light can pass through _____ material. Objects on the other side of the material can be seen clearly.
- No light can pass through _____ material. An object on the other side of the material can't be seen.
- The colors we see are the colors _____ by an object.
- Our eyes cannot see the colors of visible light that are _____ by an object.
- During _____ light changes speed and bends.

Write your responses in the blanks below.

- When an object absorbs all light waves, what color does it appear to be? _____
- When an object reflects all light waves, what color does it appear to be? _____
- Write an example of an object that is opaque. _____
- Write an example of an object that is translucent. _____
- Write an example of an object that is transparent. _____

Write reflection or refraction in each blank to indicate which light behavior is described.

- _____ You are wading in the ocean and you see a seashell. When you reach into the water to pick up the shell from the ocean floor, the shell is not where you thought it would be.
- _____ You quickly get a sunburn while snow skiing on a sunny day.
- _____ When you are driving a car on a foggy night, you find it harder to see when you turn on your high beams.
- _____ A beam of white light passes through a prism then spreads out to reveal colors.