

Name \_\_\_\_\_

## Light's Journey: Through Space and Beyond

### Short Answer Key

1. Light travels through space because it consists of electromagnetic waves that can propagate through the tiny particles, like dust and gas molecules, present in space.
2. When light passes through a raindrop, it slows down, bends, and disperses into its individual colors, forming a rainbow.
3. A mirror reflects light because it has a smooth and highly reflective surface, causing light to bounce off it without being absorbed.
4. A straw appears bent in a glass of water due to the refraction of light as it passes from air into water.
5. Glass is a transparent material that allows light to pass through because its atoms and molecules do not significantly absorb or reflect light.

