

Light

Terms to Know

- **Radiant Energy:** Energy that travels in waves.
- **Visible Light:** Radiant energy that can be seen by the human eye.
- **Frequency:** The number of waves passing a given point in a given amount of time.

Transverse Waves

Light travels in waves called **transverse waves**. The highest part of a wave is called the **crest** and the lowest part of a wave is called the **trough**.

Light waves are described by their **wavelengths**. A **wavelength** is the distance between two points that follow each other. For example, the distance between one crest to the next crest OR the distance between one trough to the next trough.



Frequency & Energy

The greater the frequency, the greater the amount of energy.

Wave A has more energy than Wave B because Wave A has a greater frequency.



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How Light Travels

Light travels in a straight path until it hits an object.

Reflection

Light is reflected when it bounces off an object.

Example: Light hitting a mirror.

Refraction

Refraction is the bending of light.

Example: A spoon appears to bend when placed in a glass of water.

Transmission

Transmission is when light travels through a material.

Example: Sunlight passing through a window.

Absorption

Absorption happens when an object takes in light.

Example: A leaf takes in sunlight and uses it to make food.

Light Energy

Light transfers radiant energy. Energy from the sun is transferred to Earth by light. As the light is absorbed, it warms the Earth and assists in the process of photosynthesis.



Technology can be used to transform light energy into other forms of energy. For example, solar panels turn radiant or light energy into electrical energy.



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Materials & Light

The following terms describe the amount of light that can pass through a material.



Transparent

Light passes through transparent materials easily.

Examples: clear plastic wrap, water, air.



Translucent

Light passes through translucent materials partially.

Examples: stained glass, wax paper, thin fabrics.



Opaque

Light cannot pass through opaque materials at all.

Examples: metal, wood, bricks, stones.

Study Guide: Version # 1

Light Study Guide

Sharon Garlough Brown



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