

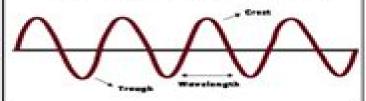
#### Terms to Know

- · Radiant Energy, Energy that travels in way as
- Yiable 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 **fransverse waves**. The highest part of a wave is called the **crest** and the lowest part of a wave is called the **trough**.

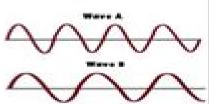
Light waves are described by their wavelengths. A wavelength is the distance between two points that follow each other. For example, the distance between one crest to the next crest DR the distance between one trough to the next trough.



## 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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Study Guide: Version #1

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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 on 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 if to make food

## **Light Energy**

Light transfers radiant energy. Energy from the sun is transferred to Earth by light. As the light is obserbed, 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.



## Materials & Light

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



#### Transparent

Light passes through transparent materials easily

Exemples clear plastic wrap, water, or



#### Translacent

Light passes through translucent materials partially

Examples stoined glass, wax paper, thin fabrics



## Opeque

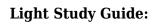
Light cannot pass through opaque materials at all

Examples metal, wood, bricks, stones

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**Sharon Garlough Brown** 



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