

Light

Study Guide & Review Worksheets

How Light Travels

Light travels in a straight line.

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.

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.



The following



Light

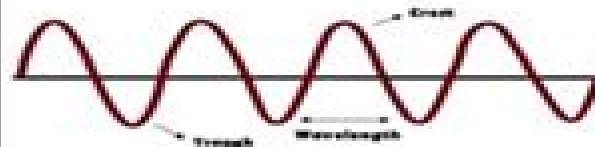
Terms to Know

- **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**.

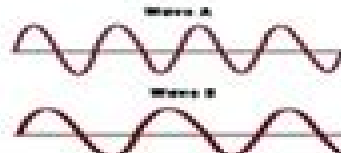
Light waves are described by their **wavelengths**. A **wavelength** is the distance between two points that follow each other. For example, the distance between one crest to the next crest OR the distance between one trough to the next trough.



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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Examples: metal, wood, bricks, stones

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The colors of the visible spectrum are determined by wavelength. The colors are arranged from longest wavelength to shortest wavelength, but not the longest wavelength. Violet has the shortest wavelength.



The Visible Spectrum

Review

Date _____

The colors green, blue, and yellow. Put with the shortest wavelength to the

energy being transformed into a

should have a greater frequency than e has more energy and explain why

appear flat when it is setting?

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16 Study Guide Light

Arthur Beiser



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