

SOUND AND LIGHT

How is Sound Made?

Sound is made because of something vibrating.



Vibrate means to move back and forth rapidly.
Vibrations are the cause of sound.
You hear sounds because of vibrations.
We use different sounds to communicate.

 **PREVIEW**

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vibrate.

How Are Sounds Different?

Some sounds are **LOUD** and others are quiet.



Strong vibrations make **loud** sounds.

Gentle vibrations make **quieter** sounds.

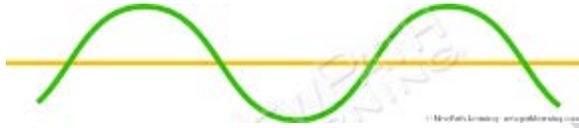
Volume, when referring to sound, is how loud or quiet a sound is.

*Let's check what we have learned so far:
What vibrations make **LOUD** sounds?*

How Does Sound Travel?

Vibrations caused by **sound waves** cause us to hear sounds.

Sounds travel in waves.



Sound waves

The farther

Sound can



PREVIEW

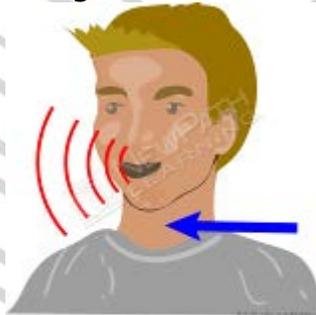
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How Do People and Animals Make Sounds?

You make sounds when you talk because your vocal chords **vibrate** when air passes through them.



You know that animals make **MANY** different sounds: some chirp, some bark, some neigh, some say 'oink oink' and others 'meow'!

LIGHT: What is Light?

Light is also a form of energy.
Light is energy that travels at very high speeds.
When an object blocks light, a **shadow** is created.

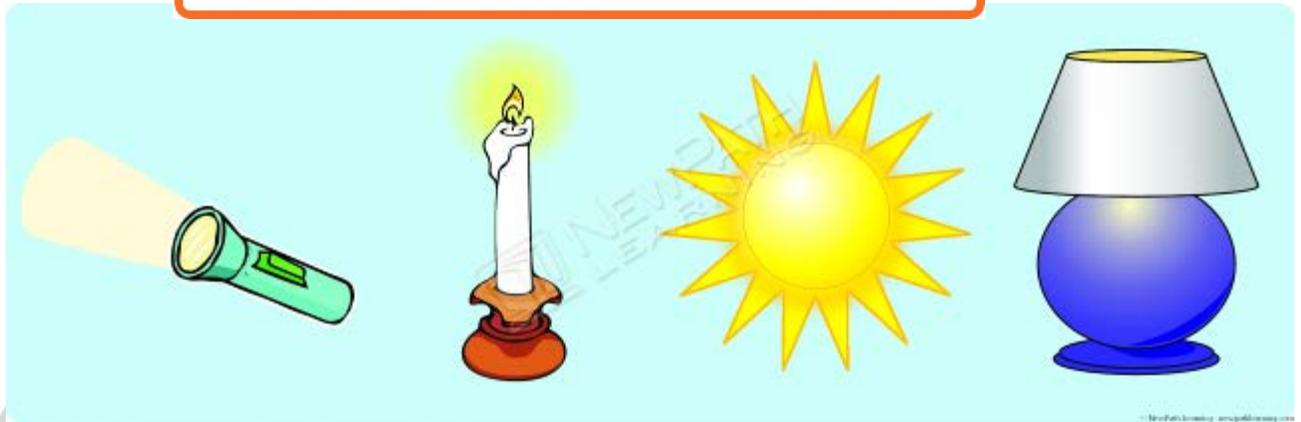


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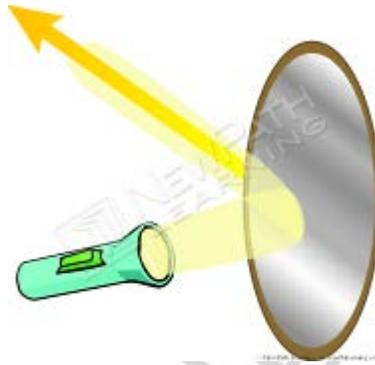
light, a



The SUN is the Earth's MAIN source of light!
Light from the sun also heats the Earth.

Sunlight causes plants to grow. The sun's energy is stored inside of
the plants.

Light travels in a straight line. Light can bounce off of objects. For example, light can bounce off a mirror.



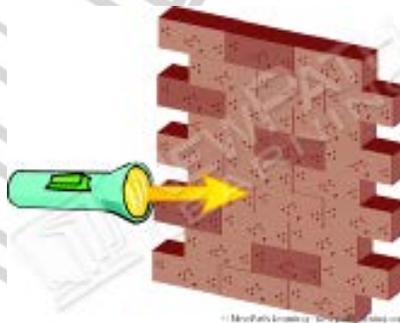
Some objects are transparent, which means light passes all the way through them, and we can see where the light goes. An example of a **transparent** object is a window.



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Other objects are opaque, which means they block any light from going through them. An example of an **opaque** object is a brick wall.



***Let's check what we have learned so far:
What is our MAIN source of light here on Earth?***