

1. Choose the correct word:

Sound is a form of

It is produced by the of bodies.

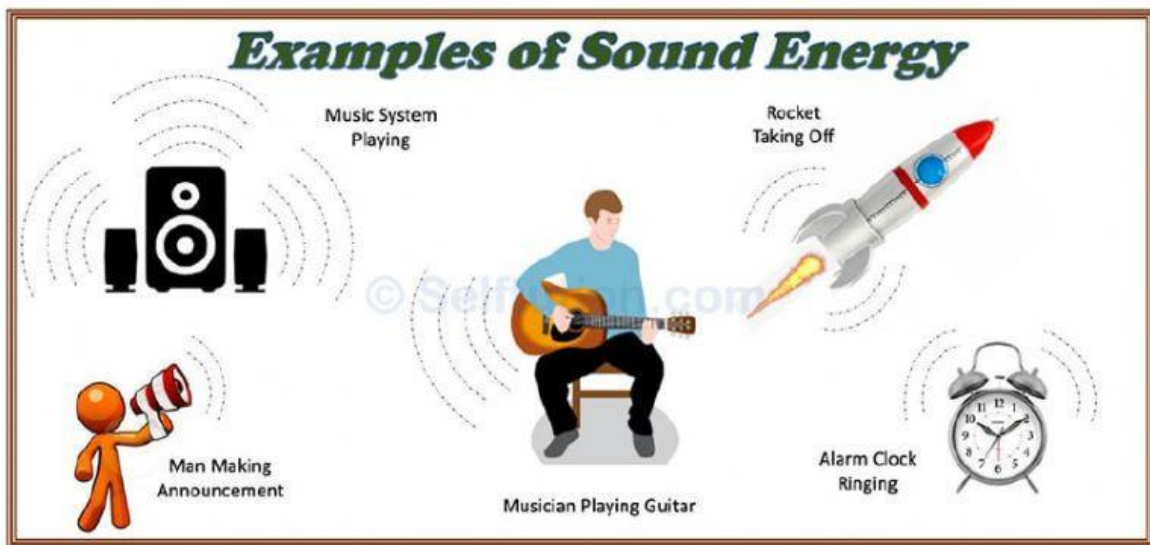
We perceive it through our sense of

Sound energy is a type of energy because it is the energy of molecules . Vibration is a type of movement, so sound energy is kinetic energy

Sound Energy



When someone plays the guitar, the strings vibrate and transmit energy



It travels in straight lines and in all directions, but much more than light.

Sound can only travel through a like air, the ground or water.

How Sound Travels

Sound travels in waves by vibrating matter molecules through a medium (gases, liquids, and solids)
Sound can not travel through empty space, because there are no molecules to vibrate



Sound travels through a gas

Sound Travels through a liquid

Sound Travels through a solid

? Sound travel _____ through denser material

? Denser material vibrate _____

? Sound travel _____ through the air than through the ground

QUALITIES OF SOUND

Link with the correct definition:

VOLUME

this can be high or low

PITCH

this can be loud or quiet sound

TIMBRE

it makes it possible to differentiate between sounds with the same pitch and volume

Choose the correct answer:

Sound travels in

- ☐ curved lines and in all directions
- ☐ straight lines and in all directions
- ☐ straight lines and in one direction
- ☐ curved lines and in one direction

It is possible for sound to travel through ... in matter or materials.

- ☐ vibrations
- ☐ a loud volume
- ☐ a high pitch
- ☐ a high pitch and a loud volume

An astronaut picks up a rock from the moon and throws it hard against another rock. There is no sound. Why not?

- ☐ Because your ears don't work on the Moon.
- ☐ Because there is no gravity on the Moon.
- ☐ Because rocks are soft and squashy on the Moon.
- ☐ Because there is no air on the Moon so sound cannot travel.

Regarding sound, which of these sentences is false?

- ☐ Whenever a sound is made, something vibrates.
- ☐ The pitch of a sound means how high or low the sound is.
- ☐ Quiet sounds can damage your ears.
- ☐ Sound can travel through any medium.

Write the correct concept:

_____ is a form of energy produced by the vibration of bodies. Its qualities are:

_____ It makes it possible to differentiate between loud and quiet sounds.

_____ It can be high or be low.

_____ It makes it possible to differentiate between sounds with the same pitch and volume.