

Movement and energy in a system

Do not answer the following questions. Keep them in mind and you will find the answers as you go through the notes.

- How do musical instruments make music?
- Are there different types of musical instruments in different parts of the world?

Movement and musical instruments

- plucking
- indigenous

Look at the photo of the orchestra. There are many different instruments that all make music. All the sounds are combined together to make a wonderful noise.



An orchestra consists of many musical instruments playing together.

The joy of sound - making a body band

INSTRUCTIONS:

1. Work in groups of 4 - 5. Include your brothers and sisters.
2. You can make music with your body. You can clap your hands or stamp your feet. You can make clicking sounds with your tongue or puff out your cheeks and tap them. You can beat a rhythm on your thighs.
3. In your family, find interesting ways to use your bodies to make a short (1 minute) music piece.
4. Be creative.
5. Some of you could even dance (if you are allowed to) while the others make the music!

Movement causes sound

In your body band, you made lots of different sounds. Every sound that you made involved you moving a part of your body.

Many musical instruments use movement to make sounds. Let us look at a few common musical instruments.



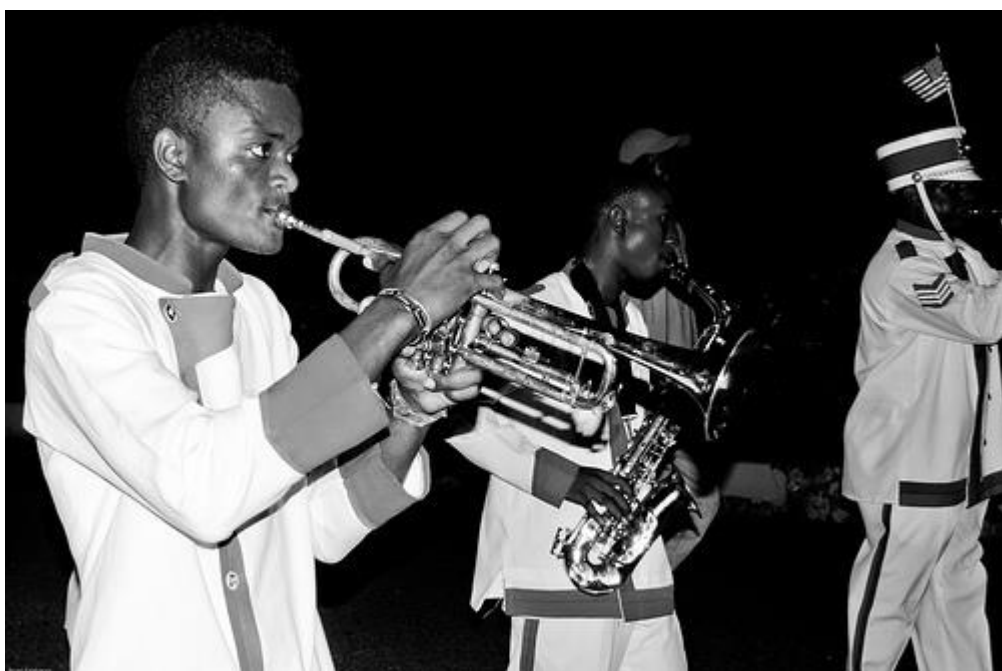
A man plucking the strings on a guitar

When a guitar string is plucked, the string vibrates and causes a sound wave to occur. The sound is amplified (made louder) by the air vibrating in the hollow inside of the guitar as well. We can then easily hear the sounds produced by the guitar.



A group of drum players

A drum has a thin membrane or skin that is stretched tightly over the opening of something hollow. As the drummer beats this membrane, the membrane vibrates and makes the sound we hear.



A trumpet player in a marching band

The trumpet player blows through closed lips into the trumpet. This makes a buzzing sound which causes the air inside the trumpet to vibrate. The vibrating air causes sound which we can hear.

Many musical instruments work because movement causes vibrations which cause sound.