

# SOUND WAVES - SHOEBOX GUITAR

## MAIN OBJECTIVES

- learn how sound is made
- learn what affects pitch, volume, and direction of sounds
- critical thinking

## ACTIVITY

Students review materials explaining the basic concepts of sound. They will build their own shoebox guitar which they can decorate and experiment with to explore how sounds are made and can be manipulated.

## MATERIALS

- Sound Video
- Internet access
- Print resources about sound
- Various sizes of rubber bands
- Tape and glue
- Paper Towel Cylinder
- Shoebox
- Pencil
- Markers, crayons
- Construction paper for cut out designs

## CURRICULUM COMPONENTS

2.P.1.1 Illustrate how sound is produced by vibrating objects and columns of air.

2.P.1.2 Summarize the relationship between sound and objects of the body that vibrate – eardrum and vocal cords.

Vocabulary: sound, vibrate. columns of air, eardrum, vocal chords, pitch, frequency, force, volume, sound waves.