

Sonic Sound

Uncover the source of sound. Tap into sound waves and fill your ears with vibrations. Create sound effects and change the pitch of your voice. Use your Sonic Horn to make some noise.

SUMMARY:

This acoustic class fills an hour with music and all sorts of merry sounds! Engaging sound experiments and live demonstrations show the properties and transmission of sound waves. Children listen to sounds made with solid materials—from plastic to metal to string. Ingenious, unlikely objects transform handheld horns, metal screws, wooden ratchets and beads into a symphony of story sound effects. Electronic devices reveal frequency when a pitch-changing machine alters voices to gruff monsters or happy chipmunks. Children complete the class with their Sonic Horn Take-Homes.

EDUCATIONAL VALUE:

This class covers the characteristics of sound concepts and sound waves. Volunteers role play molecules to demonstrate sound wave motion. Children participate in producing and identifying acoustic sounds generated from a variety of materials. Electronic distortions link shifting frequencies to voice alterations. Children bring home a resonance chamber (Sonic Horn).

TAKE-HOME MESSAGE:

- 1 Sound moves in waves.
- 2 Vibrations cause sounds.
- 3 Different vibrations create different sounds.

TAKE-HOME PRODUCT:

Sonic Horn

NORTH CAROLINA ESSENTIAL STANDARDS:

- 2.P.1 Understand the relationship between sound and vibrating objects.

