SINGING PIPE

Ingredients

- Metal Pipe (1 inch in diameter and 12 inches in length)
- Mesh Screen
- Propane Torch
- Heat Resistant Gloves

Science Term

- **Sound** – A form of energy that is transmitted by an object vibrating.
- **Sound Wave** – A vibration caused by a moving object that passes through air, liquid, or solid and can be heard.

Instructions

STEP 1: Cut the mesh screen so it fits snuggly inside the metal pipe. Push the mesh screen a few inches into the metal pipe.
STEP 2: Ignite the propane torch. Hold either of the open ends of the metal pipe a few inches above the flame until you hear a tone.

Explanation

The flame from the propane torch heats the air inside the metal pipe. As the air is heated it expands and rises into the metal pipe. The warm air traveling through the pipe creates a standing wave inside the pipe. The motion of the air caused by the standing wave produces the tone.

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