



PREPARATION

THEME: SOUND SCIENCE

MYSTERY BAG

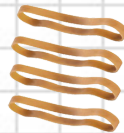
A MUSICAL INSTRUMENT
(OR TUPPERWARE WITH
WOODEN SPOON)



EXPLORATION RESOURCES

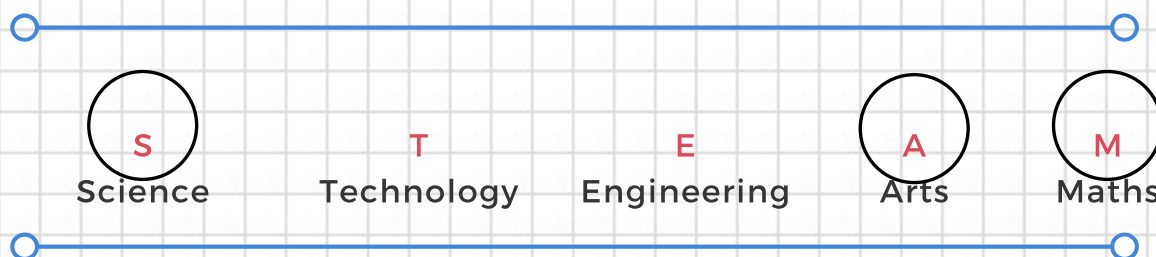


- BEATER/CHOPSTICKS/ WOODEN SPOONS
- BALLOONS, CELLOPHANE PAPER, OR GREASEPROOF PAPER AND GLUE
- ELASTIC BANDS
- EMPTY TIN AND/OR LARGE YOGURT POT
- PLASTIC BOTTLE, JAM JAR AND/OR TOILET/KITCHEN ROLL TUBE
- 2-3 OF: RICE, PASTA, COINS, SMALL STONES, DRIED BEANS, FLOUR, MARBLES



EXPLORATION

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Questions/Ideas:

Drums & Materials: Listen to the sounds of the different materials. Can you tell which drum it is from just listening?

Making Drums: What can we use for our own drum? Let's stretch a balloon/greaseproof paper (8 layers glued)/cellophane paper over the top? Look how tight it's stretched. What sound does it make when you hit it? How do the drums sound different?

Making Shakers: What shall we use for our shaker? What shall we put inside? How does it sound different with different things inside? How is it different when it's quite full/empty?

Drum Vibrations: Let's put something on top of our homemade drums. What happens when you hit the drum? Can you see the drum surface vibrate/shake? Let's see what happens when we hit harder/softer. Let's see what happens with different things on top/different drum surfaces. How high/long do they bounce?

Learning:

Science: Identifying materials; Stretching surface tight to make drum; Producing sound from shakers; Vibrations.

Arts: Listening and describing sounds and music; Creating sounds and music; Decorating musical instruments.

Maths: Comparing volume (how full) with items inside shaker; Describing height and length of time for bouncing/vibrating items; Counting.

