

What is Pitch?

How you intend to do the activity will determine how many supplies you will need. If students work together to produce one instrument then you need to predetermine which student will get to play the instrument. Only one student should blow on the instrument. Students could work together to make multiple instruments if time allows.

What you need:

For each instrument you will need:

- 8 straws
- scissors
- tape

What to do:

- **MEASURE:** Cut each straw to a different length.
- Put the straws in order from longest to shortest on a strip of tape. Leave a little space in between each straw so that when you blow you can blow each individual straw. Put another strip of tape across the other side of the straws.
- **OBSERVE:** Blow across the top of each straw. Decide which of the sounds made are high and which are low.

Think and write

- **INFER:** How does the length of the straw affect the sound that the straw makes?
- **PREDICT:** If you blew across the end of a long paper tube, would the sound that is made be a high sound or a low sound? Why?

Guided inquiry:

- **EXPERIMENT:** Collect tubes of different sizes. Predict which will make the highest sound. Order the tubes from highest to lowest sound. Test your predictions.

GLE 0207.11.2 Classify sounds according to their loudness and pitch.

GLE 0207.11.1 Investigate how vibrating objects produce sound

- ✓ **0207.11.1** Use a variety of objects that vibrate to demonstrate how sounds are produced.
- ✓ **0207.11.2** Describe the sounds produced by different types of vibrating objects