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## Use a ruler to learn about sound and pitch!

You'll need: ruler able	

Name:

1.Lay the ruler on the table with 6 inches of the ruler hanging off the edge. Use your hand to hold the ruler against the table.

2.Push down on the free end of the ruler with your other hand. Watch and listen to what happens.

**3.** Move the ruler so that 4 inches hang off the edge. Push the end of the ruler.

4. Move the ruler again so that 2 inches hang off the edge. Push the end again.

1. When did you see the ruler vibrate the fastest? When did it vibrate the slowest?

2. When did you hear the lowest pitch? When did you hear the highest pitch?

**3.** How did the pitch change as the length of the ruler hanging off the edge changed?

4. Compare the ruler to strings on a guitar or other instrument. How are they alike?

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