Name: _____ Date: _____

How to Build a Rubber Band Guitar

Circle group

You can make a pretend guitar. You need an empty tissue box and three rubber bands. The box needs a hole in the top.

Stretch the bands over the box. They go across the hole. Use a thick band, a medium band, and a thin band. Pluck one with your finger. You hear a sound!

The band moves back and forth very fast. This is a vibration. It shakes the air. The air takes the sound to your ears.

The thick band makes a low sound. The thin band makes a high sound. Pull a band tight. The sound gets higher.

Questions

1. What do you need for the guitar?

_____

_____

2. What makes the sound?

_____

_____

3. What is a vibration?

_____

_____

4. Which band makes the lowest sound?

_____

_____

5. How can you make a band sound higher?

_____

_____

Words to know

pluck: to pull a string and let it go
vibration: a very fast shaking back and forth
stretch: to pull something so it gets longer
thick: wide, not thin

Talk together (every group has these)

1. Find one fact that every group read. How did your sheet say it?
2. What did your sheet tell you that you think another group's did not? Ask them.
3. What is one question about this topic that none of the sheets answered?

Name: _____ Date: _____

How to Build a Rubber Band Guitar

Triangle group

You can make a pretend guitar with things from a drawer. You need an empty tissue box and three rubber bands. Make sure the box has a hole in the top.

Stretch the rubber bands around the box so they cross the hole. Choose bands that are thick, medium, and thin. Now pluck one with your finger. You will hear a sound!

What makes the sound? The rubber band moves back and forth very fast. This is called a vibration. The vibration shakes the air, and the shaking air carries the sound to your ears.

Each band sounds different. The thick band makes a low sound. The thin band makes a high sound. If you pull a band tighter, its sound gets higher too.

Next time you hear music, think about what is shaking.

Questions

1. What do you need to build the guitar?

_____

_____

2. What makes the sound when you pluck a band?

_____

_____

3. What is a vibration?

_____

_____

4. Which band makes the lowest sound?

_____

_____

5. What could you do to make a band sound higher?

_____

_____

Words to know

pluck: to pull a string and let it go
vibration: a very fast shaking back and forth
stretch: to pull something so it gets longer
thick: wide, not thin

Talk together (every group has these)

1. Find one fact that every group read. How did your sheet say it?
2. What did your sheet tell you that you think another group's did not? Ask them.
3. What is one question about this topic that none of the sheets answered?

Name: _____ Date: _____

How to Build a Rubber Band Guitar

Square group

You can build a pretend guitar from ordinary things in a drawer. All you need is an empty tissue box and three rubber bands. Make sure the box has an opening in the top.

Stretch the rubber bands around the box so that they cross the opening. Choose one thick band, one medium band, and one thin band. Now pluck a band with your finger, and you will hear a sound!

What creates the sound? The rubber band moves back and forth extremely fast, and this motion is called a vibration. The vibration shakes the air, and the shaking air carries the sound to your ears.

Each band sounds different from the others. The thick band makes a low sound, while the thin band makes a high one. If you pull a band tighter, its sound becomes higher too.

The next time you hear music, think about what is shaking.

Questions

1. What do you need to build the guitar?

_____

_____

2. What creates the sound when you pluck a band?

_____

_____

3. What is a vibration?

_____

_____

4. Which band makes the lowest sound?

_____

_____

5. What could you do to make a band sound higher?

_____

_____

Words to know

pluck: to pull a string and let it go
vibration: a very fast shaking back and forth
stretch: to pull something so it gets longer
thick: wide, not thin

Talk together (every group has these)

1. Find one fact that every group read. How did your sheet say it?
2. What did your sheet tell you that you think another group's did not? Ask them.
3. What is one question about this topic that none of the sheets answered?

For the teacher: How to Build a Rubber Band Guitar

Each student sheet carries a shape, not a level. The same topic and facts, written three ways.

Circle: How to Build a Rubber Band Guitar

Easier · 101 words · Flesch-Kincaid grade 0.5

1. An empty tissue box and three rubber bands.
2. The band moves back and forth very fast.
3. A fast back and forth movement.
4. The thick band.
5. Pull it tighter.

Triangle: How to Build a Rubber Band Guitar

This passage · 134 words · Flesch-Kincaid grade 1.9

1. An empty tissue box and three rubber bands.
2. The band moves back and forth very fast.
3. A fast back and forth movement.
4. The thick band.
5. Pull it tighter.

Square: How to Build a Rubber Band Guitar

Harder · 150 words · Flesch-Kincaid grade 3.9

1. An empty tissue box and three rubber bands.
2. The band moves back and forth extremely fast.
3. A very fast back and forth motion.
4. The thick band.
5. Pull it tighter.