

Activity Plan

<i>Title</i>	Peter and the Wolf: Sound and Vibration
<i>Subject</i>	3Ps: Performing, Presenting, Producing
<i>Author</i>	Maestro Classics
<i>Grade level</i>	3-6
<i>Time duration</i>	Self-Guided
<i>Overview</i>	Sound is created by vibration.
<i>Objective</i>	You will explore the science of vibration
<i>Materials</i>	You will need: <ul style="list-style-type: none">• Your Music Journal• A Rubber Band• Water Xylophone Activity• The Science of Sound Video
<i>Activities and procedures</i>	<p>Step 1 Read the Following:</p> <p>Sound is created by vibration. Pluck a stretched rubber band, tap lightly on a glass, blow across a bottle. Each of these makes a unique sound through vibrating materials or air, and the vibrations travel to your ear in waves.</p> <ul style="list-style-type: none">• Pitch is determined by how fast an object vibrates- the faster the vibration, the higher the note. Did you ever wonder why adults have lower voices than children? Or why your dad and grandfather have lower voices than your mom and grandmother? Bigger things, or instruments, vibrate more slowly and have lower sounds than smaller ones. A piccolo sounds higher than a flute, a violin sounds higher than a cello, etc. Peter's theme (on the strings) is higher than the grandfather's theme (on the bassoon) to show that Peter is younger and smaller than his grandfather. Wouldn't it be silly if their sounds were reversed?

Step 2

- Stretch a small rubber band between your fingers and pluck it. Try the same thing with a longer, thicker rubber band. What do you notice? Write about it in your journal.

Step 3

- Construct your own [Water Xylophone](#). Tap the lowest note and the highest note. What do you notice? Write about it in your journal.

Step 4

- Watch [this video](#) to learn about how sound is produced and how it travels. Write a reflection about what you are thinking in your journal after watching the video.

Step 5

- Watch this [Blue Man Group Video](#). Explain what you are seeing. Come up with three questions for further investigation.

*Conclusions***Step 5**

Create:

- Design an [infographic](#) about what you have learned about sound and vibration

Adaptations

- Choose an animal from the story (bird, duck, cat, or wolf) and find out more about it. What kind of animal is it? What are its characteristics? What does it eat and in what environment does it live? Draw a picture of it and read books about it.
- You can participate in other activities. Check them out on the E-Learning page Under *District-Wide and Extended Learning Activities*