



# Vibrations!

By: Amanda Martin  
Elementary school music teacher; M.A.Ed. In Curriculum and Instruction

Science  
Grades K-2



## Introduction

Students will learn what vibrations are, discover how they are produced, and explain the cause and effect relationship between the vibrating materials and sound through pictures and a short essay.

## Learning Objectives

- Students will examine the cause and effect relationship between vibrating materials and sound.

## Materials Needed

- Items that show vibration: rubber band, musical instruments, speakers, etc.
- Vibrations writing prompt paper

## Procedure

1. Students will be introduced to the term, vibration. Explain to the students that vibrations occur because another action is performed. Vibrations also produce sound!
2. For this section of the lesson, you will need to demonstrate vibrations for the class. Here are some ideas: pull a rubber band tightly and pluck it, borrow a triangle or drum from a music classroom, pluck a guitar string, etc. Explain the cause and effect relationship. (For instance: If you use the rubber band experiment, the rubber band makes a sound because the band was plucked.)
3. Ask students to think about which example of vibration was their favorite. On the following sheet of paper, have students draw a picture demonstrating the cause and effect of their chosen example. An example would be that if the guitar string is plucked (cause), the string vibrates and produces sound (effect). Then, underneath the pictures, students must explain what happened in 2 or 3 sentences.

## Evaluation

Please use the following rubric (on page 2) to assess student learning.

Continued on page 2



# Vibrations!

By: Amanda Martin  
Elementary school music teacher; M.A.Ed. In Curriculum and Instruction

Science  
Grades K-2



Continued from page 1

	3 (Excellent)	2 (Okay)	1 (Not Quite)
The student understands the cause and effect of his/her chosen example.			
The student correctly explains the relationship between the vibrating materials and sound.			
The student uses complete sentences with appropriate capitalization and punctuation.			