

**Grade:** 6<sup>th</sup>

**Topic:** Matter and Energy

**Title:** *Moving Sound Waves*

**Objective:**

Students will predict and explain that sound waves move away from their source.

**Standards:**

**6.3.22** - Demonstrate that vibrations in materials set up wavelike disturbances, such as sound and earthquake waves, that spread away from the source.

**6.5.6** - Predict the frequency of the occurrence of future events based on data.

**Materials:** (For every two students)

- String – 30 inches in length
- Fork, spoon, large paper clip, or other metal object that can be tied to a string.

**Activity:**

1. Pair students.
2. Students gather materials (1 string per student and at least 2 objects)
3. Ask students to tie or hang an object from the string.
4. Students predict what will happen if they press the strings against their ear and hit the object on the edge of the desk.
5. Students write in science journal what they discovered.

**Assessment:** 0-4 Scale

- 4 – Exceptional
- 3 – Expected
- 2 – Developing
- 1 – Beginning
- 0 – Non-existent

Criteria:

- 1.) Student properly completes science journal. \_\_\_\_\_
  - 2.) Student makes logical prediction. \_\_\_\_\_
  - 3.) Student properly explains the sound waves  
traveled away from the source. + \_\_\_\_\_
- TOTAL \_\_\_\_\_

$$\begin{array}{ccc} \boxed{\phantom{000}} & \div 3 = & \boxed{\phantom{000}} \\ \text{TOTAL} & & \text{FINAL} \\ & & \text{SCORE} \end{array}$$