

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## What Causes Sound

The sound of an alarm clock is very helpful (even if sometimes we don't want to hear it). But, what causes the sound of the alarm? What causes the sound of music on the radio or the birds chirping outside? We will look at the cause of sound through two similar observations.

### *Equipment:*

- Tuning Fork
- Scissors
- Salt
- Yogurt Container
- Rubber Band
- water
- Plastic Wrap

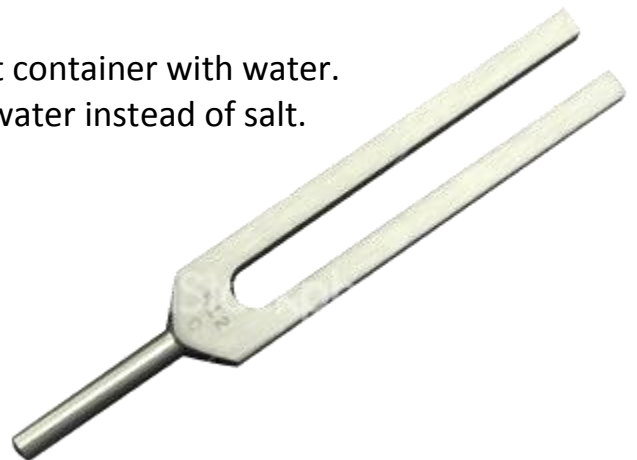
### *Procedure:*

#### Activity 1

1. Cut a piece of plastic wrap and stretch it over the top of the yogurt container.
2. Hold the plastic wrap in place with a rubber band. Be sure the plastic wrap is tight, but don't rip it.
3. Sprinkle some salt on top of the plastic wrap.
4. Hit the tuning fork on the edge of your shoe once, then hold it close to the salt (do not let it touch anything).
5. Record what you hear and see, as well as draw a picture.
6. Repeat steps 4 and 5, but this time tap your shoe multiple times.
7. Repeat steps 4 and 5, but this time gently touch the plastic wrap with the tuning fork.

#### Activity 2

1. Remove the plastic wrap and fill the yogurt container with water.
2. Repeat steps 4 though 7 above, but using water instead of salt.



*Observations:*

Salt

One Tap - No Touch	Multiple Taps - No Touch	One Tap - Gentle Touch
Notes:	Notes:	Notes:

Water

One Tap - No Touch	Multiple Taps - No Touch	One Tap - Gentle Touch
Notes:	Notes:	Notes:

*Discussion:*

1. Explain your observations based on what you have learned about sound.

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