**Tuning Fork Madness Lab** Name: Date:

*Reminder: You should always strike a tuning fork using either the rubber stopper, a pencil, or the bottom of a rubber-soled shoe. Never hit it on a hard surface, please.*

1. Touch the tuning fork with your other hand after you strike it. What happens?
2. Strike the tuning fork again and place it into a beaker of water. What do you observe?
3. Do you see any differences between the different sizes (frequency) of the tuning forks when you put them into the beaker of water? Explain anything you notice.
4. Strike the tuning fork again. Touch the Styrofoam ball on a string with the tuning fork. What do you notice? Why is this happening (explain).
5. Strike the tuning fork again and place it on your forearm. Describe what it feels like.
6. Strike the tuning fork and place it on your skull. Is it the same or different from your forearm? Explain what it feels like.
7. Strike the tuning fork and hold it over the opening of an empty soda can. Move it up and down and listen carefully. What do you hear?
8. Team up with another table and find two tuning forks of the same pitch. Strike one and hold it up so it is parallel to the second one. What happens? Explain what you hear/see.
9. This time find two tuning forks with different pitches/frequencies. What happens? Explain what you hear/see.

10. What can you say about the different frequencies and the types of sounds they make (higher/lower)?

Write a paragraph that compares and contrasts the tuning forks by frequency (Hz), size, sound, etc. Make sure to use detail and elaborate.