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

**Sound Straw Lab**

**Directions: You are learning about sound waves and how wavelength, frequency and velocity affect sound. You will begin to investigate and create your own sound waves. Think back to the YouTube playlist and how various pipes create different sounds.**

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| **Types of Sound Instruments*** Multiple PVC pipe drum instruments with tapping
* Sliding PVC pipes trombones
* PVC pipe drum
* PVC pipe flutes
 | **Ways to Create Sound*** Tapping
* Blowing across the top
* Cutting into the pipe
* Angled edges to blow across
* Humming/ Whistling
* Drumming
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**Brainstorm: Remember you can alter sound by changing the wavelength (λ) or the velocity (v) of the air across the straw. In the box below:**

1. Start thinking about what type(s) of instrument(s) you would like to create.
2. Draw or describe in detail the instrument you want to create.
3. Include ideas about length of straw(s)
4. How your instrument will be used

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**Create: Your instrument(s) must have a total of 4 different sounds or tones. Now create your instrument with only straws, push pins, scissors and tape.**

**Describe: List out a step by step process of how you created your instruments.**

**Questions:**

1. **Describe your instrument**