Name: _____ Homeroom : _____

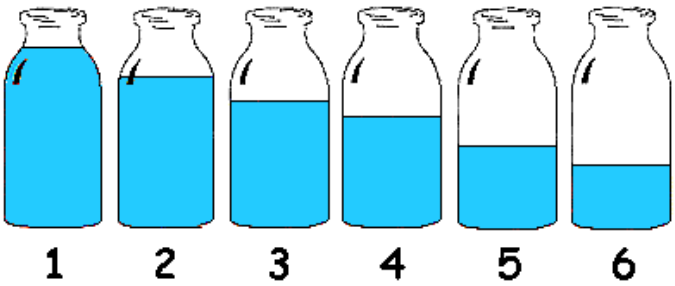
Musical Glasses

Materials: 6 beakers, water, pencil

Procedure: 1. Gather 6 beakers of the same size.

2. Gently with a pencil, strike each one without any water in it. Notice the frequency it makes compared to the others.

3. Fill each beaker with different amounts of water and number each beaker as shown below.



4. Strike each glass gently with a pencil. Notice the frequency of each one in reference to how much water is in it. Record which beaker had the highest and lowest frequencies.

5. Try adjusting the amounts of water in each glass to produce a musical scale. Record the heights of water (cm) in each of your beakers once you have a musical scale.

6. Try to play the following songs.

Mary Had a Little Lamb 3212333 222 355 3212333 322321	**Jingle Bells** 333 333 35123 444 4433 3355421
Twinkle, Twinkle Little Star 11 55 66 5 44 33 22 1 55 44 33 2 55 44 33 2 11 55 66 5 44 33 22 1	**This Old Man** 535 535 6543234 345 1 111 12345 5224321

Name: _____ Homeroom : _____

Observations:

Beaker Number with highest frequency	Beaker Number with lowest frequency

Beaker Number	Water Height (cm)

Conclusion:

1. Why do the different amounts of water in the beakers create different notes when the bottles are tapped?
2. What is producing the sound when you strike the glass with water inside - the beaker, the water, or the air inside the beaker?
3. If you were to take a soda bottle with water in it and blow across the top it makes a sound. What is producing the sound when you blow across it- the beaker, the water, or the air inside the beaker?

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