



WHAT IS THIS?:

You can find cylinders in all kinds of musical instruments. Create your own special sounds by turning glasses of water into instruments, make some cool “glass-ical” music, and find out how it works.

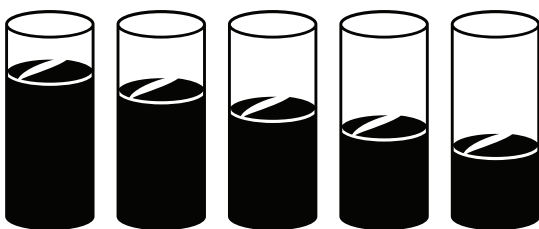


WHAT YOU’LL NEED:

- 5 or more drinking glasses
- Food colouring
- Water
- Wooden stick such as a pencil



WHAT YOU DO:



STEP ONE:

Line the glasses up next to each other and fill them with different amounts of water and food colouring. The first should have just a little water while the last should be almost full, the ones in between should have slightly more than the one before it.

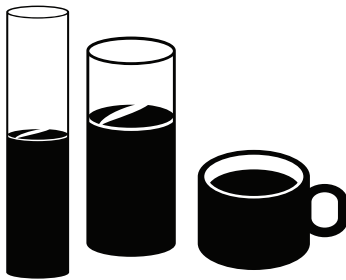


Glass-ical Music



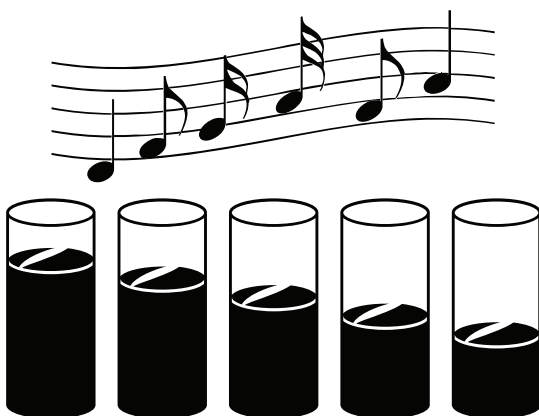
STEP TWO:

Use the pencil to tap on the glass with the least amount of water and observe the sound. Next, try the glass with the most water. Which makes the higher sound?



STEP THREE:

Experiment with the other glasses and see what noise they make. Can you get a tune going by tapping the glasses in a certain order?



STEP FOUR:

Each of the glasses will have a different tone when hit with the pencil. The glass with the most water will have the lowest tone while the glass with the least water will have the highest. Small vibrations are made when you hit the glass. This creates sound waves which travel through the water. More water means slower vibrations and a deeper tone.

