

# Budding Scientists!



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# Here is a simple experiment for you to do at home:

## Making Music with Water

Have you ever tried making music with glasses or bottles filled with water? I bet your favourite band hasn't. Experiment with your own special sounds by turning glasses of water into instruments, make some cool music and find out how it works.

### **What you'll need:**

5 or more drinking glasses or glass bottles

Water

Wooden stick such as a pencil or even a wooden spoon

### **Instructions:**

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

Gently hit the glass with the least amount of water and observe the sound, then hit the glass with the most water, which makes the higher sound?

Gently hit the other glasses and see what noise they make, see if you can get a tune going by tapping the glasses in a certain order.

### **What's happening?**

Each of the glasses will have a different tone when tapped 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.

