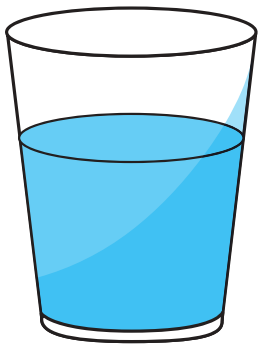
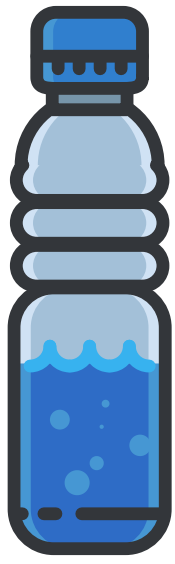
USE YOUR BRAIN



LOGIC CHALLENGE



Cups of Two Sizes

CAN YOU USE THE WRONG TOOLS TO GET THE RIGHT MEASUREMENTS OR WILL YOUR BRAIN JUST END UP SOAKED IN FRUSTRATION?

The Challenge

Humans have tools for pretty much everything these days, but sometimes we don't bring the right one for the job. However, with a little ingenuity, sometimes the wrong tool is good enough. Using only two strangely sized measuring instruments, we can make a lots of different accurate measurements that don't seem possible at first! See if you can figure out how.

The Assumptions

- You have a 20 ounce bottle. It doesn't have any markings on it.
- You have a 12 ounce bottle. It doesn't have any markings on it.
- You have no limit on water and a funnel so that you can pour accurately.
- You only know how much water is poured into a container if you fill it to the top. You cannot estimate a partly filled container.

What you do

Try to figure out how to **accurately** measure the following amounts of water. Estimating is **not** allowed! Some of them will be very easy, some will require several steps.

4 Ounces
8 Ounces
12 Ounces
16 Ounces
20 Ounces
24 Ounces
28 Ounces
32 Ounces

Make it real?

If you have a 12 ounce can, a 20 ounce bottle, and a funnel, you can bring this puzzle to life! Make sure to find a place you can work and not make a mess (a tub, a sink, or in the yard) and ask your parents permission. If you have a measuring cup, you can use it to check your answers! Remember you probably won't pour perfectly so if your answer is a little off that's ok.