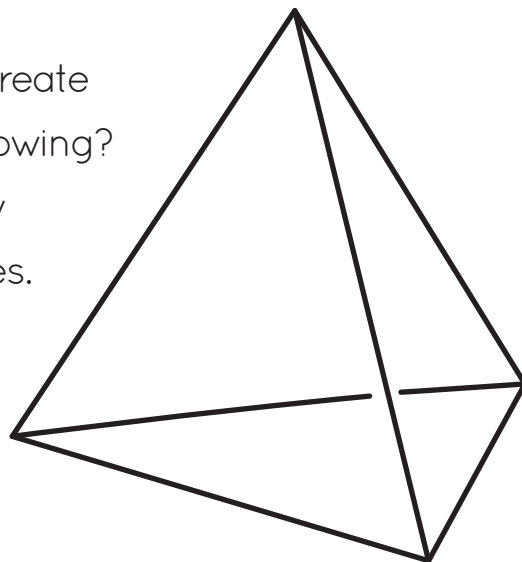




WHAT IS THIS?:

Think all bubbles are spheres? Think again! Create cool 3D mind-blowing bubbles! Why mind-blowing? That's because this activity will show you how you can create bubbles with surprising shapes. You can start with a tetrahedron, which is a 3-dimensional shape made with four equilateral triangles. You'll make your very own tetrahedron with pipe cleaners and see what happens when you use it to make bubbles!

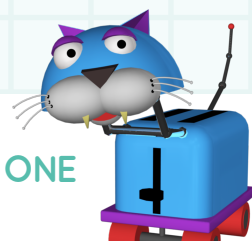


WHAT YOU'LL NEED:

- Four pipe cleaners



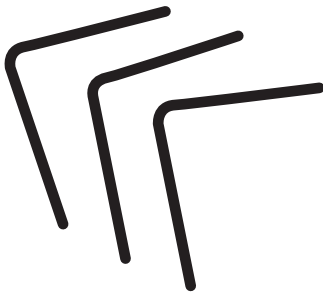
- Bubble mixture
Example recipe is 2/3cup of dishwashing liquid, 4 litres water, 2 to 3 tablespoons of glycerin (*available in pharmacies or drug stores*)



Mind-blowing bubbles

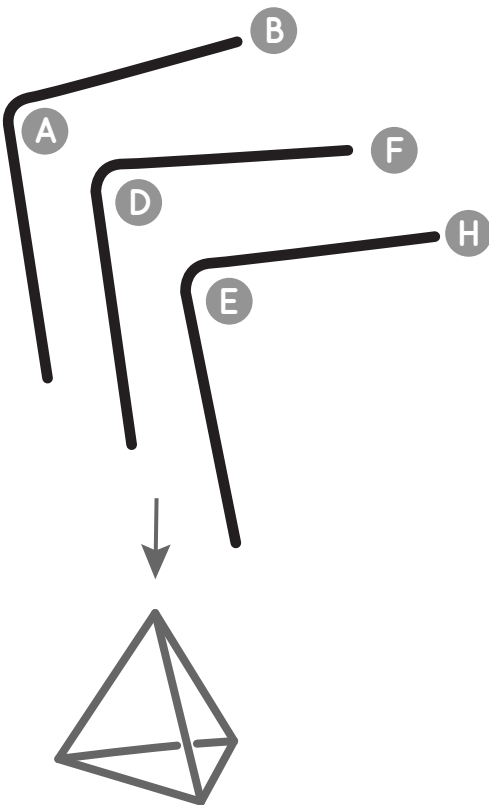


WHAT YOU DO:



STEP ONE:

Bend each of the three pipe cleaners in half to create three angles.



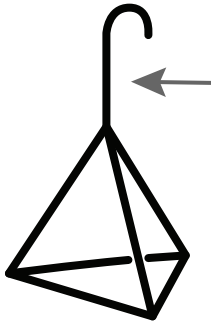
STEP TWO:

Form a tetrahedron by:

- connecting the end point "B" to the angle "D"
- connecting the end point "F" to the angle "E"
- connecting the end point "H" to the angle "A"

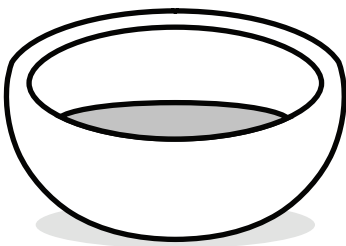


Mind-blowing bubbles



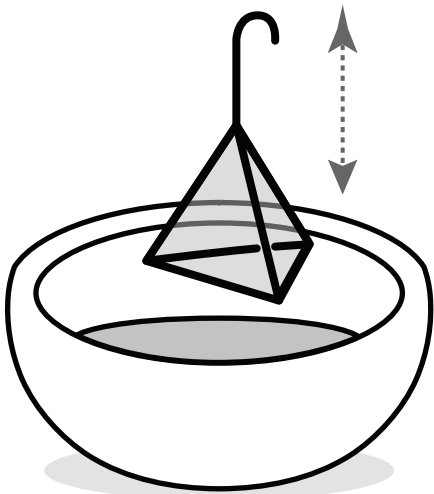
STEP THREE:

Take your fourth pipe cleaner and attach it to the tetrahedron to make a handle.



STEP FOUR:

Prepare your bubble mixture and put it in a container that the tetrahedron will fit into.



STEP FOUR:

Submerge the tetrahedron into the soap mixture. Notice what happens to the soap film. Much like a spherical bubble, the soap film takes on a shape that minimizes its surface area.

