

Hey! Are you ready to make some suds? I'm **Miss Leah**, and I'm going to show you how to engineer your very own bubble blower. It's easy! You just need a few household supplies:

-Plastic cup

-A straw

-Scissors

-Dish soap and water



Step 1

Make a small hole in the side of your cup, big enough for your straw to fit through. I used a pair of scissors, but you could also get the hole started with a pen or knife.



Caution: Have an adult help you with this part!

Step 2

Time to make your bubble mixture. In a small bowl, mix $\frac{1}{4}$ cup of **water** with about $\frac{1}{4}$ cup of **liquid dish soap**. When you pour this into your cup, make sure it doesn't go past the hole you made!

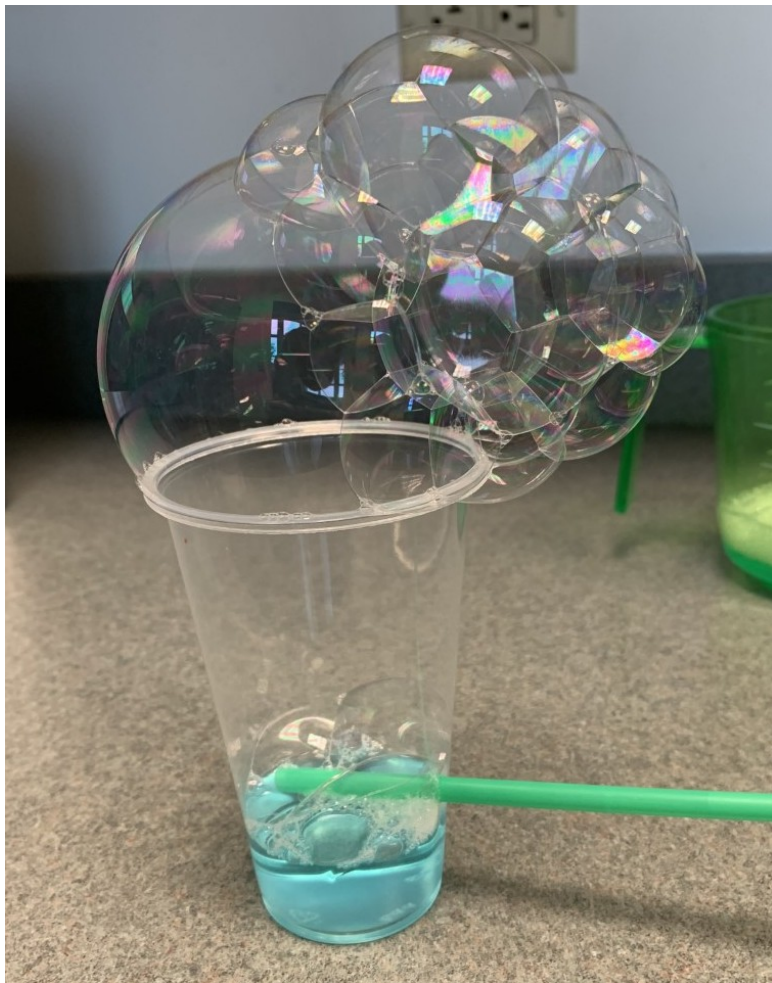


Step 3

Insert your straw through the hole and into the bubble mixture. Ready?

BLOW!

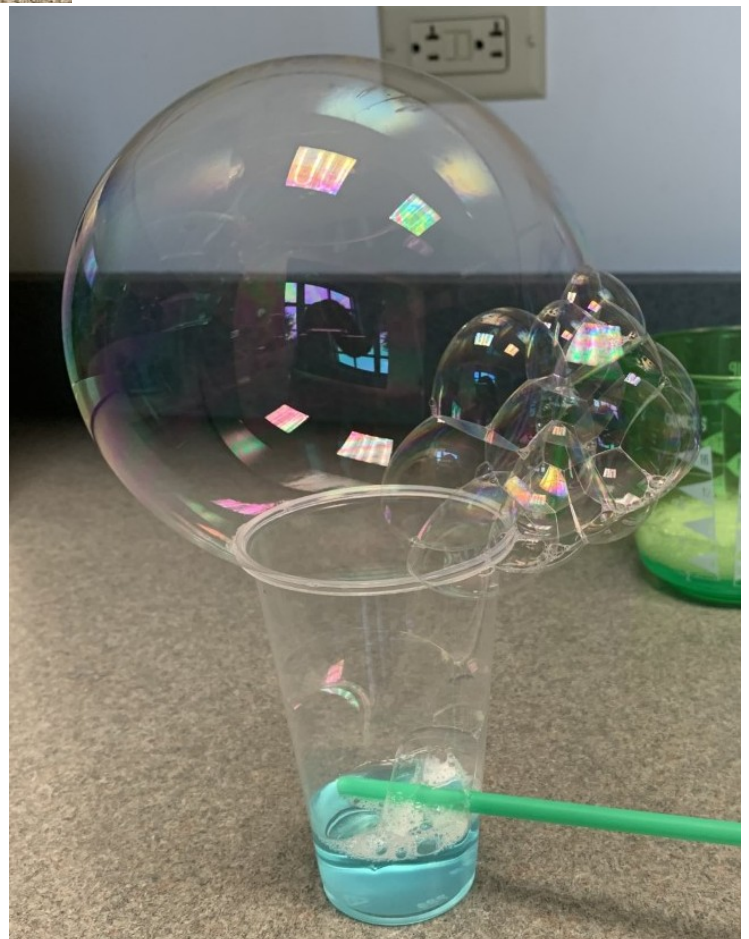
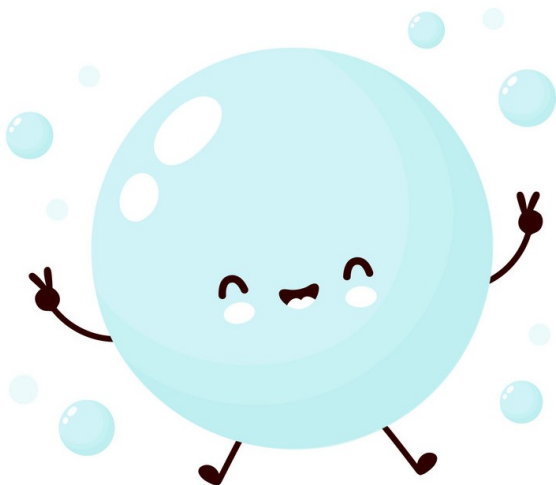




Watch how big they get! Blow them off the top of the cup and see how high they'll float.

Note: If they get too big or clumpy, they might not fly as high.

Also, be careful and don't accidentally inhale your bubble mixture!!



What's the **STEAM** behind it?

What makes up a bubble, anyway? A bubble is comprised of three very thin layers: soap, water, and more soap. These layers create a film that traps a pocket of air, creating a bubble. A bubble will pop on its own when the water between the soap layers evaporates.





Want to take things a step further? You can create a bubble wand using pipe cleaners or wire! With these, you can make your wand into any shape you want—give it a try!

Another way to create a bubble blower is by cutting off the bottom of a plastic water bottle. Dip that end in the bubble solution and blow through the mouthpiece.



Sometimes the simplest projects are the most fun. I hope you guys enjoyed this one! Be sure to keep up with all our upcoming virtual events.

Stay safe!

Miss Leah



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