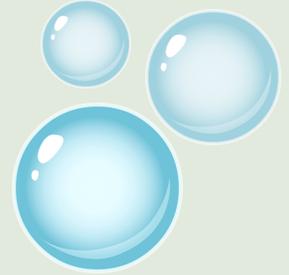


## Featured Project:

# Sock Bubbles!

It's blow time! Make your own bubble-maker and get outdoors with this fun and simple project. All you need are a few easy-to-find items and some bubble-blowing power. Ready, set, blow!



## Materials Needed:

- Sock
- Plastic water bottle
- Water
- Dish soap
- Scissors
- Elastic band or duct tape (optional)
- Food colouring (optional)



**Time to Make:** 5 minutes to make, endless minutes to enjoy!

## Instructions:

1. Use a pair of scissors to cut off the bottom of a water bottle.
2. Stretch out the sock and slide it over the open end of the water bottle. Stretch it out so it opens up completely over the water bottle and then fold it back a little, leaving the top of the water bottle exposed. Folding it back will keep it snug on the bottle, and it will make it easy to take apart if you are using a good pair of socks that you plan to reuse afterwards. If the socks you are using are too big to fit tightly/fold back over the bottle, you can hold them in place with an elastic, or even some duct tape.
3. In a small container, mix together some dish soap with a small amount of water. One big squeeze of the dish soap and about 1/2 cup of water should do it but you might have to just take your best guess.
4. Dip the end of the bottle and sock into the bubble solution then blow on the mouthpiece of the bottle to make the bubbles. The harder you blow, the better the bubbles!
5. Try experimenting with different sized bottles, adding food colouring (one drop or two is enough), and different quantities of water and dish soap to see if you can get different shapes, sizes and colours.

**How does it work?** Bubbles form because of the surface tension of water. Hydrogen atoms in one water molecule are attracted to oxygen atoms in other water molecules. They like each other so much, they cling together. When blow into your sock bubble maker, you are creating hundreds of tiny bubbles. As the air wiggles through the fabric, bubbles are continuously being made. The bubbles attach to each other when they come out of the fabric. It's all thanks to the same hydrogen bonds that make bubbles possible!

Sources: <https://onelittleproject.com/bubble-snakes/>  
<https://www.stevespanglerscience.com/lab/experiments/bubble-snakes/>

## What is Maker Minute?

Maker Minute is our way of bringing the SDG Library MakerLab to your home! Each week, we'll release a cool activity or experiment that you can do using items from your home. You can share your progress and finished products on our social media pages:

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We can't wait to see what you'll make next!

