

# Bubbles!

Mix and measure ingredients to make a simple, 3-ingredient bubble solution. Then explore your home for creative bubble wands!



**Materials:** Water, dish soap, cornstarch, mixing bowl, measuring cups, spoon

**Step 1:** Bubbles have three main ingredients: water, soap, and air. To get started, carefully measure  $3\frac{1}{4}$  cup water into a mixing bowl. What do you notice about the water? Does it flow slowly or quickly when you pour it into your bowl?

**Step 2:** Add  $\frac{1}{4}$  cup dish soap. What do you notice about the soap? Does it flow slowly or quickly?



**Step 3:** Mix in a pinch of cornstarch. Slowly stir all of your ingredients together. Do you spot any changes?



**Step 5:** Now that you have made your bubble solution, it is time to search your home for bubble wands. What kind of materials might make a good wand? Make a hypothesis, and then test it out! Here are some ideas. Can you find any more?



**Step 6:** Experiment! Can you make big bubbles? Small bubbles? One bubble? Many bubbles?



**Step 7:** Have fun! The experiment does not have to end once you have made your solution. Take your materials outside and continue exploring. How high can a bubble fly before it pops? Can you catch a bubble? For more fun STEM experiments with bubbles, check out [this](#) link.

## Bubbles in Nature

Bubbles are special because they are all around us. You might see bubbles in your kitchen sink, or near a pond by your house. Can you think of other places you have seen bubbles?

Some fish create nests out of bubbles, and snails make bubbles to protect themselves. Check out [this](#) link to see examples of bubbles in nature.

Go on a scavenger hunt: See how many examples of bubbles you can find. Do it in your home, or head outside to look for bubbles in nature!

## Bubble Art

Finally, if you are feeling creative, there are some great ways to use bubbles to create art. With just food coloring or tempera paint you can create a masterpiece with bubbles. Check out [this](#) link for full instructions.



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## Extra Resources

- Check out this video to see some neat examples of giant bubbles.
  - <https://www.youtube.com/watch?v=Gwrkk4C4Jvo>
- Bubbles are a great opportunity to explore sensory play. Explore texture and matter with this fun bubble sensory bin idea.
  - <https://www.notimeforflashcards.com/2014/06/bubble-bin-sensory-play.html>