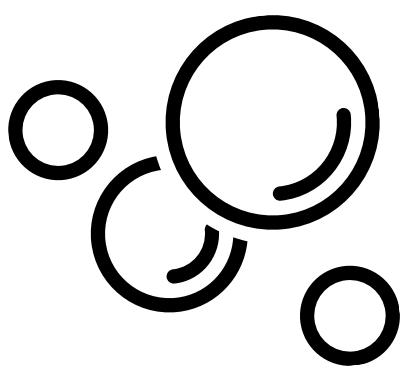


Bubble-ology



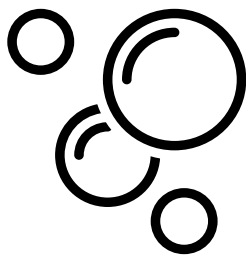
We are going to compare three bubble solutions

1. Store-bought bubbles
2. Water + dish soap solution
3. Water + dish soap + corn syrup

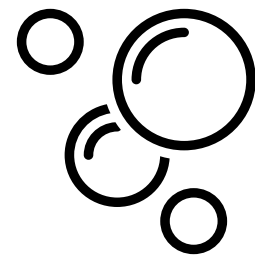
Which bubble solution do you think will make the best bubbles?

Experiment # 1 hypothesis:

I think the **store-bought/ dish soap/ corn syrup** bubbles will be the best!



Bubble-ology



Materials:

- Store-bought bubbles
- Water
- Dish soap (Dawn works best!)
- Corn syrup
- 3 Paper cups

Directions

Prepare Solutions

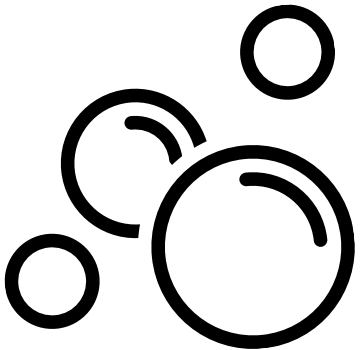
1. Fill a large bowl with 6 cups of water
2. Add a cup of dish soap and stir gently
3. Pour half of the dish soap solution into a second bowl
4. Add 1/8 a cup of corn syrup to one bowl and stir

Prepare Experiment

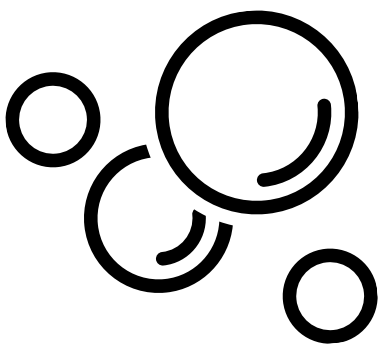
1. On the bottom of the paper cups, label each cup as "Store-bought," "Dish soap," and "Corn Syrup"
2. On the side of the cup, label them 1-3
3. Fill each cup with the corresponding solution

Science Best Practices:

It's important to perform experiments without knowing which solution is which. This practice is called blinding. Blinding is important because if you have a belief about which solution will produce the best bubbles, you might change the way you test each solution, introducing bias.



Bubble-ology

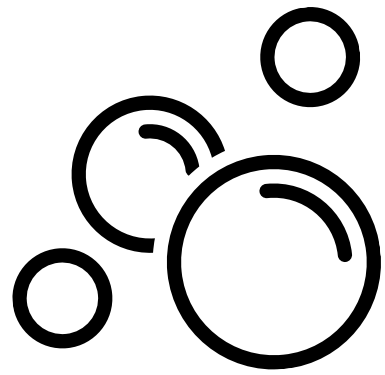


Experiment #1

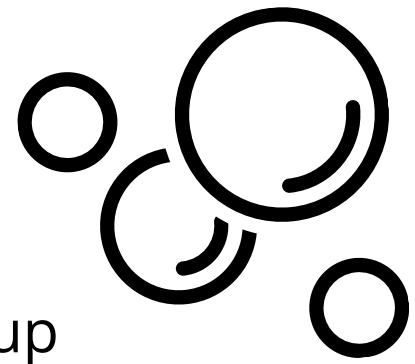
You are going to observe how well the three solutions perform on 3 tests:

1. **The number of bubbles produced with a single blow**
2. **How big of a bubble you can make with a single blow**
3. **How long a single bubble does not burst**

After recording your observations in the chart below, rank each of the solutions to decide which one is the best. Once you have selected a solution, check the bottom of the cup to reveal which solution is the best.



Bubble-ology



Store-bought • Water • Dish soap • Corn Syrup

Bubbles

How Big?

How Long?

Rank

1



2



3