

QUICK LAB: Bubbles!

Laboratory Recordsheet

Use with Section 1.3



PURPOSE

To test the hypothesis that bubble making can be affected by adding sugar or salt to a bubble-blowing mixture.

MATERIALS

- 3 plastic drinking cups
 - measuring cup and spoons
 - table sugar
 - liquid dish detergent
 - water
 - table salt
 - stirring rod
- Bubble wand
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PROCEDURE

1. Label three drinking cups 1, 2, and 3. Measure and add one teaspoon of liquid dish detergent to each cup. Use the measuring cup to add two thirds of a cup of water to each cup. Then swirl the cups to form a clear mixture.
CAUTION: *Wipe up any spills immediately so that no one will slip and fall.*
2. Add a half teaspoon of table sugar to cup 2 and add a half teaspoon of table salt to cup 3.
3. Using your bubble wand, dip the wand into the solution 1, and gently blow a bubble onto the pad provided. Wipe any soap solution up immediately
4. Repeat Step 3 with the mixtures in cups 2 and 3.

ANALYZE AND CONCLUDE

1. Did you observe any differences in your ability to produce bubbles using the mixtures in cup 1 and cup 2?

2. Did you observe any differences in your ability to produce bubbles using the mixtures in cup 1 and cup 3?

3. What can you conclude about the effects of table sugar and table salt on your ability to produce bubbles?

4. Could you design a bouncing bubble - in a separate cup combine 4 tbsp water, 1 tbsp dish soap, 2 tbsp sugar: Combine warm water with dish soap and stir. Then mix in the sugar until it dissolves. Put on a winter glove (these are the green gloves) (this will assist in keeping the bubbles intact. design a data table to record your results.