Name: _______________________

**Super Suds**

**Pre-lab Questions**
- What is a chemical reaction?
- What is a physical change?
- What is a mixture?

**Objective**
- Explain that a chemical change/reaction may occur when substances are mixed together.
- Identify when a chemical change/reaction has occurred.

**Safety**
- Always wear safety goggles when handling chemicals in the lab.
- Alert teacher immediately of any spills.
- Follow teacher directions for clean-up and disposal of chemicals.
- Students should wash their hands thoroughly before leaving the lab.

**Procedure**
1. Place cup or bowl in deep sensory tub.
2. Pour ¾ cup warm water into cup or bowl.
3. Add ¼ cup clear hand soap to water.
4. Have teacher or adult add the food coloring.
5. Stir mixture to distribute color. Record your observations in the data table.
6. Measure and add 2 tablespoons baking soda to cup or bowl.
7. Stir. Record your observations in the data table.
8. Slowly begin adding 2 tablespoons of citric acid to cup or bowl. Record your observations in the data table.

**Data**

<table>
<thead>
<tr>
<th>Procedure Step</th>
<th>Observations</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td></td>
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<tr>
<td>7</td>
<td></td>
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<td>8</td>
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</tbody>
</table>

**Conclusion**
Write a short summary of what you learned: