

## “Scientists Are Thinkers”

<p><b>Question/Problem: What do we want to find out?</b></p> <p>Does water temperature affect the rate of dissolving sugar?</p>
<p><b>Hypothesis: What do we think we will find out? Make a prediction.</b></p> <p>The warmer the water, the faster the sugar will dissolve</p>
<p><b>Materials: List what you will need to test the hypothesis</b></p> <ol style="list-style-type: none"><li>1. 3 cups</li><li>2. 100 ml of cold, room temperature, and warm water</li><li>3. 3 sugar packets</li><li>4. clock</li></ol>
<p><b>Procedures/Steps: State step by step what you are going to do.....specifically</b></p> <ol style="list-style-type: none"><li>1. Pour 100ml of cold water in one cup, 100 ml of room temperature water in another cup and 100ml of warm water in the third cup</li><li>2. Place the contents of one sugar packet in each cup and stir</li><li>3. Measure the amount of time required for the sugar to dissolve</li><li>4. Repeat the procedure 2 more times</li></ol>
<p><b>Observe and Record Data: List, picture, chart, graph</b></p> <p>Create a table listing the water temperature in the right column and the time it takes for the sugar to dissolve in the second, third and fourth columns</p>
<p><b>Analysis/Results: What does the data tell us?</b></p> <p>The data indicates that sugar dissolves fastest in the warm water, and then the room temperature water, and then the cold water</p>
<p><b>Conclusion: What did I learn? What does it make me want to learn next?</b></p> <p>The warmer the water the faster a quantity of sugar will dissolve.</p> <p>In the future I would like to know if this is true for the dissolving of other substances</p>