The Great Mix-Up

Procedure

1. **Collaborate** Work in a small group. Record your data in the chart below.

<table>
<thead>
<tr>
<th>Material</th>
<th>Properties before mixing</th>
<th>Properties after mixing</th>
</tr>
</thead>
<tbody>
<tr>
<td>paper clips</td>
<td></td>
<td></td>
</tr>
<tr>
<td>toothpicks</td>
<td></td>
<td></td>
</tr>
<tr>
<td>beans</td>
<td></td>
<td></td>
</tr>
<tr>
<td>rice</td>
<td></td>
<td></td>
</tr>
<tr>
<td>salt</td>
<td></td>
<td></td>
</tr>
<tr>
<td>water</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2. Fill each of five small plastic bowls halfway with one of the following materials: paper clips, toothpicks, dry beans, rice, and water. Put a spoonful of salt into a sixth bowl.

3. **Observe** Look at the material in each bowl. Smell and touch it. Record your observations in your chart. **Safety:** Do not taste the material.

4. **Record Data** Pour the paper clips into the bowl of toothpicks and stir them together. Observe and record in your chart the properties of the mixed materials.

5. **Record Data** Repeat step 4, pouring the beans into the rice.

6. **Observe** Repeat step 4, pouring the salt into the water.
Conclusion

Write the answers to the questions below.

1. Analyze Data  Which materials changed when you mixed them together? How did they change?

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____________________________________________________________________

2. Predict  What will happen if you mix beans and paper clips?

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____________________________________________________________________

Investigate More!

Design an Experiment  Mix together three or more of the materials. Have the properties of the materials changed after being mixed together? Give reasons for your answer.