Matter Changes

Procedure

1. Record your observations in the chart below. Half fill a plastic cup with crushed ice. Put two crackers in another cup.

<table>
<thead>
<tr>
<th>Material</th>
<th>Height</th>
<th>Shape</th>
<th>State</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crushed ice</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Whole crackers</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crushed crackers</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melted ice</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mixture</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2. Measure Use a metric ruler to measure the height of the crushed ice and crackers. Mark the heights on the outside of the cups. Label the marks Ice and Whole Crackers. Record the height, shape, and state of the materials in your chart.

3. Compare Allow the ice to melt. Crush the crackers with a spoon. Measure the height of both materials and mark them on the cups. Label the marks Melted Ice and Crushed Crackers. Record the height, shape, and state of the materials.

4. Combine the materials in one cup and stir them together. Mark the height and label it Mixture. Record the height, shape, and state of the mixture.
Conclusion

Write the answers to the questions below.

1. **Analyze Data** How did each material change during each step?
   
   ____________________________
   
   ____________________________
   
   ____________________________

2. **Infer** Were any materials taken away during the experiment?
   Were any new materials added?
   
   ____________________________

3. **Predict** How do you think the mixture will change if you place it in a freezer?
   
   ____________________________
   
   ____________________________
   
   ____________________________

**Investigate More!**

**Design an Experiment** Allow the mixture from step 4 to dry out. Measure the height of the material that remains. Is the height close to the height of any of the materials in the Investigate?