Make a Cake!

Background
You will observe your teacher mix and bake 4 cakes today. Baking and cooking are full of changes and chemical reactions! You will observe the changes and reactions that occur. First, answer the questions below to the best of your ability.

Questions
1. What do you expect to happen when the cakes are baked?

2. What causes the cake to change from liquid batter to a solid cake?

3. What is the difference between a physical change and a chemical change?

Observations
Record your observations:

<table>
<thead>
<tr>
<th>Ingredient Left Out</th>
<th>Before Baking</th>
<th>After Baking</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cake #1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cake #2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cake #3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cake #4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Analysis**
Answer the following questions based on what you recorded in your table.

1. What is a chemical reaction? Did you observe any chemical reactions? Explain.

2. How do you know that a chemical reaction has taken place?

3. Did you observe any physical changes? Explain.

4. What is another example of cooking or baking that has chemical and/or physical changes occur?