



**WorksheetCloud: WORKSHEET**

**Grade 8**

**Subject: Natural Sciences**

**Topic: Chemical Reactions 2**

### **Activity 1**

1. During a chemical reaction, one or more substances are changed into new substances. Do you know of any chemical reactions? Can you mention one or two examples?
  
2. How will we know when a chemical reaction is taking place? What are the signs?

3. You need to decide whether the change is physical or chemical and write the answer in the last column.

<b>Change</b>	<b>Is it a physical or chemical change?</b>
Cutting up potatoes into cubes	
Boiling water in a pot on the stove	
Frying eggs in a pan	
Whipping egg whites	
Dissolving sugar in water	
Burning gas in a gas cooker	
Your ice cream melts in the sun	
Milk turning sour	
An iron gate outside rusts	

## Activity 2

Can you use a chemical reaction to strip away the shell of an egg, without breaking the egg?

### MATERIALS:

- eggs
- a glass
- white vinegar

### INSTRUCTIONS:

Carefully place the egg in the glass. Be careful not to crack the shell.



Cover the egg with vinegar. Wait a few minutes. Can you see anything happening on the surface of the eggshell?



1. Write your observations below.
2. What is this observation a sign of?

Leave the egg in the vinegar for 4 - 5 days.

*You should complete the rest of the activity after this.*

Note: It may be necessary to top up the vinegar if the reaction starts to slow down. Remember to return to the activity at the end of the week, when the eggshell has dissolved completely.

After 4 to 5 days, look at the egg in the vinegar and write down your observations.

Carefully scoop the egg out of the vinegar with a large spoon. Touch the surface of the egg. Write your observations below. What has happened to the shell?



Rub the powdery coating off the egg and place it in some clean water. What does it look like now?



QUESTIONS:

What signs did you see that told you a chemical reaction had taken place?

Write a short paragraph to explain what happened to the eggshell.

