

Unit/Topic of work: 7F Simple Chemical Reactions

A group of pupils carried out the three experiments shown in the table. As they carried out the experiments, they wrote down their observations.

a) In two of the experiments a chemical reaction has taken place. Which two observations show this?

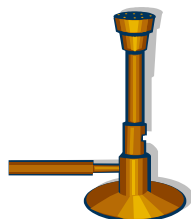
Observation 1 _____

Observation 2 _____

b) The gas produced in experiment 1 was tested with a lighted splint. The splint burned with a squeaky pop. What gas was produced?

c) Write word equations for experiment 1 and experiment 3.

Complete the fire triangle to show the three things needed for burning to happen






methane +

→

+

carbon dioxide oxygen water

Experiment		Were gas bubbles produced?	Observations Did the solid disappear?	Did the test tube get hot?
1	acid + magnesium ribbon 	yes	yes	yes
2	water + sugar cube 	no	yes	no
3	acid + marble chips 	yes	yes	yes

Assessment criteria:

Level 4: State the gas needed for burning

Level 5: Predict one of the products of reacting an acid with a metal or carbonate

Level 6: Use observations to decide if a new material has been made

Level 7: Use word equations to describe simple reactions

(Tick the targets achieved and highlight the next step target)