

Name:

Chemical change experiment

Safety: Eye protection must be worn for all of the following experiments

See pages 15 and 16 in your text book to help you

Experiment 1

Half fill a test tube with hydrochloric acid. Add two or three small marble chips.

What evidence is there that a chemical reaction is taking place?

Answer:

Equation:

Experiment 2

Add some calcium nitrate solution to some sodium carbonate solution in a test tube.

What evidence is there that a chemical reaction is taking place?

Answer:

Equation:

Experiment 3

Add two spatulas of copper (II) carbonate to a clean, dry test tube. Use a test tube holder and heat the copper (II) carbonate over the blue flame of a Bunsen burner. (Make sure that you keep your head away from the the flame and your hair is tied back.) What evidence is there that a chemical reaction is taking place?

Answer:

Equation:

Experiment 4

Add one spatula of copper (II) sulphate to one spatula of iron filings in a test tube. Measure 2 cm³ of pure water in a measuring cylinder and record the temperature of the water. Initial temperature: _____ Add the water to the test tube and record the temperature again. Final temperature: _____ What evidence is there that a chemical reaction is taking place?

Answer:

Equation:

Experiment 5

Add one spatula of citric acid to one spatula of sodium hydrogencarbonate in a test tube. Measure 2 cm³ of pure water in a measuring cylinder and record the temperature of the water. Initial temperature: _____ Add the water to the test tube and record the temperature again. Final temperature: _____ What evidence is there that a chemical reaction has taken place?

Answer:

Equation: