

Name

Reaction of a metal carbonate with acid

You are going to test one of the products of the reaction between a metal carbonate and an acid.



Put three or four marble chips into the conical flask.

Put some limewater into the test tube, so that the longer tube is partially submerged.

Add about 25cm³ of dilute acid to the marble chips in the conical flask and quickly stopper the flask.

The gas produced should bubble through the limewater.

Draw a diagram of your apparatus

Name

Put the marble chips in a beaker for waste and pour any solutions down the sink.

Name

What happens to the limewater, and what does this show?

What is the word equation for the reaction between marble chips and acid?

What are the formulae of the reactants and products? (Valencies are Ca = 2, Cl = 1, H = 1, CO₃ = 2, C = 4)

What is the balanced symbol equation for this reaction?

Copper carbonate and sulphuric acid react in a similar way. Try to write a word equation and a balanced symbol equation for this reaction. What would you expect to see as the reaction progressed?