State the type of flame formed on a Bunsen burner when

1. Air hole is opened
2. Air hole is closed

Which type of flame is most suitable for heating substances. Explain

The diagram below was assembled and used to prepare hydrogen

 Name substances

Complete the diagram to show how dry hydrogen would be collected

Write an equation for the reaction taking place in the set up

The diagram below represents a set up that was used to collect the products from burning kerosene

 Name the substance that forms in tube M

What is a mole

What is mass of 0.253 moles of sodium (Na =25

Diamond and graphite are allotropes of carbon

 What is an allotrope

Explain why graphite is a good conductor of electricity while diamond is nit

Define the grahams law of diffusion

Alculate the time taken for 400cm of methane CH4 gas to diffuse through a porous ppot ,if the same volume of sulphuric )