The activation energy of a reaction is

An endothermic reaction is one that

An exothermic reaction is one that

What is the concentration in mol/dm3 when 30g of NaOH is dissolved in 250cm3 water

What is the concentration in g/dm3 when 30g of NaOH is dissolved in 250cm3 water

What does conservation of mass mean in a reaction?

When does mass appear to decrease in a reaction?

How many moles are in

11g of CO2

190g of H20

C3

What is the value of Avogadro’s number?

What do the following state symbols mean?

(s)

(l)

(g)

(aq)

What is the mass of;

1 mole of CO2

0.5 moles of H20

1.5 moles of Na2O

How many atoms in;

2 moles of He

0.5 moles of CO2

2.5 moles of Na

Describe the positive tests for the following gases;

Hydrogen

Oxygen

Chlorine

Carbon dioxide

Complete the equations;

No. of moles =

Write the half equations for the following;

Li becoming an ion

O2 forming ions

Cl **-** ions forming a fluorine molecule

What is the formula mass (Mr) of these compounds?

NaCl

Ca(OH)2

Al2(SO4)3

What is the atomic mass (Ar) of these elements?

Na O

Ca S

C H

Cl Al

Name these molecules

H2O

NH3

CO2

Cl2

Balance the following equations;

Li + H2O → LiOH + H2

Na2CO3 + HCl → NaCl + H20 + CO2

H2SO4 + NaOH → Na2SO4 + H2O

What is the formula of these compounds?

Sodium oxide

Calcium hydroxide

Sodium sulfate

Sodium fluoride

Show the ions the following atoms form;

Na

Ca

F

O

What charge do these ions have?

OH

SO4

CO3

NH4