

Name:

Class:



Give the names of two elements in group 1 of the periodic table.

Any **two** from:

Lithium, Sodium, Potassium, rubidium etc.

Give the names of two elements in group 7 of the periodic table.

Any **two** from:

Fluorine, Chlorine, Bromine, Iodine etc.

Suggest the name of the compound with the formula Al_2O_3 .

Aluminium oxide

How many atoms are there in the formula Al_2O_3 ?

5

Reactive metals react with acids.

Complete the word equations for the following reactions between metals and acids.

zinc + hydrochloric acid → zinc chloride + hydrogen (gas)

calcium + sulfuric acid → calcium sulfate + hydrogen(gas)

Describe a test to show that a gas is hydrogen.

Test: lit splint.

Result: if the gas is hydrogen a squeaky pop is heard.

Identify the following piece of apparatus?



Retort stand

Give the formula of an oxygen molecule?

O_2

Give the formula of a molecule of water?

H_2O

Complete the following table by filling in the empty boxes.

Symbol	Ag	B	Pb	Fe	Ne
Name of element	Silver	Boron	Lead	Iron	Neon

Define diffusion.

Diffusion is the movement of particles from an area of high concentration to an area of low concentration moving down their concentration gradient.

Ignore references to a partially permeable membrane.

What gas is needed for a fuel to burn?

Oxygen

Is a pH of 2 acidic or alkaline?

Acidic

Determine the chemical formula for the compound made from iron(III) ions (Fe^{3+}) combined with nitrate ions (NO_3^-).

$\text{Fe}(\text{NO}_3)_3$