Keyword	Definition		
Periodic Table	A tabular representation of all known elements in order based on atomic number.		
Atomic Number	The number of protons in the nucleus of an atom. Also called the proton number.		
Periods	A horizontal row in the periodic table.		
Groups	A vertical column in the periodic table containing elements with similar chemical properties.		
Element	A substance made of only one type of atom.		
Compound	A Substance where two or more elements have chemically joined together.		
Mixture	Two or more substances that are not joined together. The substances can be elements, compounds or both.		
Reactive	The tendency of a substance to undergo a chemical reaction.		
Further Reading: https://www.bbc.com/bitesize/guides/23vwxnb/revision/5 https://www.bbc.com/bitesize/guides/284wjxs/revision/1			
Group 1		Group 2	Group
Gloup I		Group 2	Group

The periodic table is arranged in rows called periods and columns called groups. Groups contain elements with similar chemical properties.

Group 1 – Alkali Metals

Group 1 metals are very soft metals which can be cut with a knife. They have very low melting and boiling points and are very reactive compared to other metals. The elements become more reactive as you go down group 1.

When the group 1 metals react in water they produce a metal

hydroxide and hydrogen gas. E.g. Lithium + Water \rightarrow Lithium Hydroxide + Hydrogen

Group 2 – Alkali Earth Metals

Hvdrochloric Acid - Chloride

Group 2 metals are reactive, but less reactive than group 1 elements.

Group 2 metals react with acids to produce a salt and hydrogen. The

Sulfuric Acid – Sulfate

Nitric Acid - Nitrate

E.g.

Magnesium + Hydrochloric Acid → Magnesium Chloride + Hydrogen

Magnesium + Sulfuric Acid → Magnesium Sulfate + Hydrogen

name of the salt depends on the acid used.

Magnesium + Sulfuric Acid → Magnesium Sulfate + Hydrogen Magnesium + Nitric Acid → Magnesium Nitrate + Hydrogen

Group 2 metals become more reactive when you go down group 2.

Group 7 – The Halogens

Group 7 elements become less reactive when you move down the group. This can be shown as a displacement reaction.

Group 0 – The Noble Gases

Group 0 elements are not reactive. This is because the atoms have full outer shells.



