

What happens to the melting point as you move down group 1?

It decreases.

Describe the trend in reactivity of the group 7 elements.

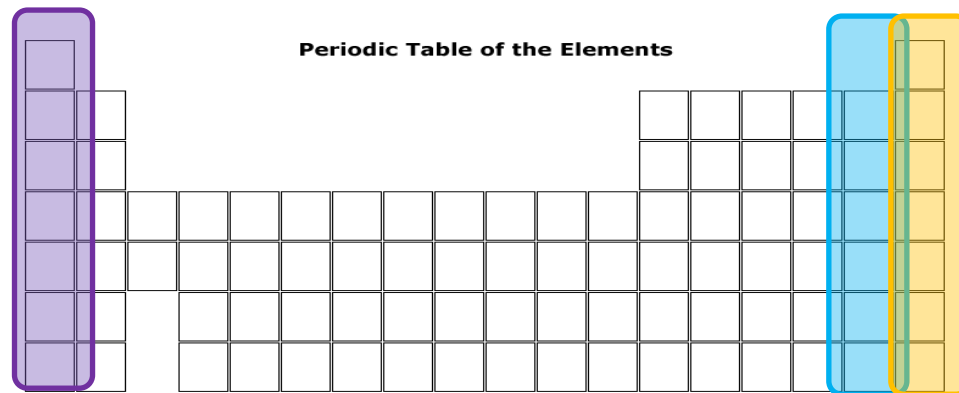
The reactivity of the group 7 elements decreases as you move down the group.

Give the **names** of Groups 1, 7, 0 and colour them in different colours on the table below. Identify the metals and non-metals.

Alkali Metals

Noble Gases

Halogens



Define a displacement reaction

A more reactive element takes the place of a less reactive element in its compounds.

Give an example of an element that could be used in electrical wiring (the element must be able to conduct electricity).

Cu (Copper)

Describe the trend in reactivity of the group 1 elements

The reactivity of the group 1 elements increases as you move down the group.

The Periodic Table

Write a word equation for the reaction of chlorine with potassium bromide.

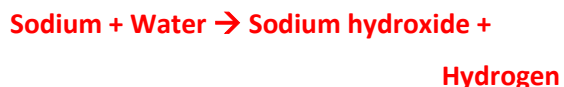


What element would we use to fill a hot air balloon? And why?

He (Helium)

It's light and unreactive so no risk of fire/explosion.

Write a word equation for the reaction of sodium with water. Describe the observations you would see.



Observations

Fizzing/bubbling

Universal indicator turns blue/purple

How would the observations differ if you added:

Lithium?

Less vigorous

Potassium?

More vigorous

Write a word equation for the reaction of Chlorine with Iron.



Describe the trend in melting & boiling points of group 7.

Both the melting & boiling points of group 7 elements increases as you go down the group.

What is the difference between the reactivity trend in Group 7 and Group 1?

Group 1 elements are more reactive as you move down the group whereas group 7 elements are less reactive as you move down the group.

Explain why bromine can displace iodine from lithium iodide.

Bromine can displace iodine from lithium iodide because bromine is more reactive than iodine.

How is the modern periodic table arranged?

By increasing atomic number across periods and groups of elements with similar chemical and physical properties.