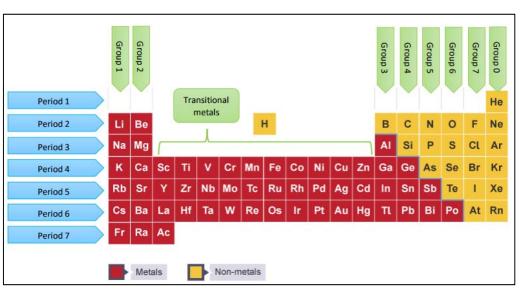
**Science Knowledge Organiser** Glossopdale<sup>7</sup> **Y8 Matter: Periodic Table** 



Key Terms:	
Boiling point	The temperature at which a substance boils.
Chemical properties.	Features of the way a substance reacts with other substances.
Density.	The mass of a material in a certain volume.
Group.	A vertical column of the Periodic Table. The elements in a group have similar properties.
Melting point.	The temperature at which a substance melts.
Metal.	Elements on the left of the stepped line of the Periodic Table.
Metalloid.	Elements near the stepped line of the Periodic Table are metalloids.
Non-metal.	Elements on the right of the stepped line of the Periodic Table.
Period.	A horizontal row of the Periodic Table.
Periodic table	Shows all the elements arranged in rows and columns.
Physical properties.	A property of a material that you can observe or measure without changing the substance.

## **Group 1 – The Alkali Metals**



Lithium Sodium

Potassium

Rubidium Cesium

Francium

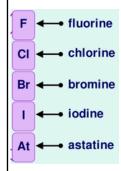
## Physical properties:

- · Melting point decreases from top to bottom of Group 1.
- Boiling point decreases from top to bottom of Group 1.

Chemical properties:

- Very reactive reactivity increases as you go from top to bottom.
- Produce alkaline solutions when reacting with water.

## **Group 7 – The Halogens**



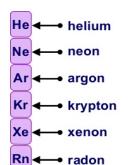
Physical properties:

- · Melting point increases from top to bottom of Group 7.
- Boiling point increases from top to bottom of Group 7.

Chemical properties:

Reactivity decreases as you go from top to bottom.

## **Group 0 - The Noble Gases**



Physical properties:

- Melting point increases from top to bottom of Group 0.
- Boiling point increases from top to bottom of Group 0.
- Melting and boiling points are very low.

Chemical properties:

· Unreactive. We say they are inert.