



Metals Non-metals

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

H

Li

Na

K

Rb

Cs

Fr

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

F

Cl

Br

I

At

fluorine
chlorine
bromine
iodine
astatine

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

He

Ne

Ar

Kr

Xe

Rn

helium
neon
argon
krypton
xenon
radon

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.