## Key features of the periodic table

## Groups

A group is a column of elements with similar chemical properties.

You need to know about:

- trends in chemical properties in groups 1 and 7
- trends in physical properties in groups 1, 7 and 0

1	2											3	4	5	6	7	0
																	18
1	2	_										13	14	15	16	17	He
Li																F	Ne
Na		3	4	5	6	7	8	9	10	11	12					Cl	Ar
K																Br	Kr
																-	Хе

## Periods

A **period** is a row of elements in the periodic table.

The atomic number of these elements increases by 1 going right from one element to the next.

You are likely to need to know about elements in periods 1, 2, 3 and 4. You need to know about the transition metals if you are studying GCSE Chemistry (rather than GCSE Double Science).

1	Н																	
2									С	Ν	0							
3		Mg						Al			S							
4		Са		Transition metals														
5											Ag							
6											Au							
7																		

## Element boxes

A periodic table usually shows information about each element. Do not confuse the boxes with isotopic symbols like these: relative atomic mass,  $A_r \longrightarrow 35.5$ symbol  $\longrightarrow Cl$ atomic (proton) number  $\longrightarrow 17$ name  $\longrightarrow$  chlorine

<sup>35</sup><sub>17</sub>Cl <sup>37</sup><sub>17</sub>Cl

The top numbers here show mass numbers (the total number of protons and neutrons in the nucleus).

