

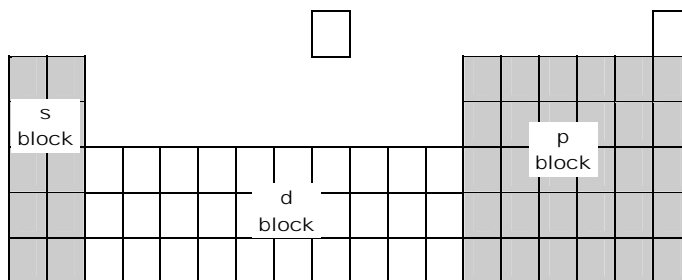
# PERIODICITY (AS)

Name ..... Form .....



## Classification of elements in s, p and d blocks

- Elements are classified as s, p or d block, according to which orbitals the **highest energy electrons** are in.



- 1) In which block are the following elements classified?

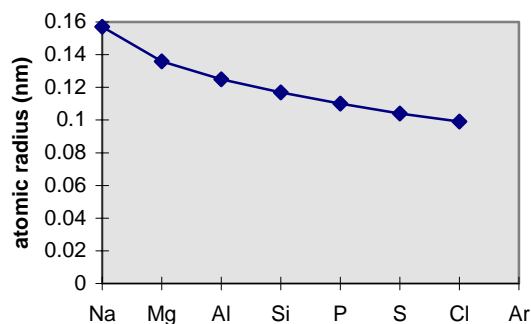
Element	C	Mg	He	Rb	Mo	Te	Fe	Cr	P	H	Cl
Block											

- 2) a) Give the electron configuration of silicon. ....  
 b) In which block is silicon classified? .....  
 c) Why is silicon classified in this block? .....
- 3) a) Give the electron configuration of vanadium. ....  
 b) In which block is vanadium classified? .....  
 c) Why is vanadium classified in this block? .....

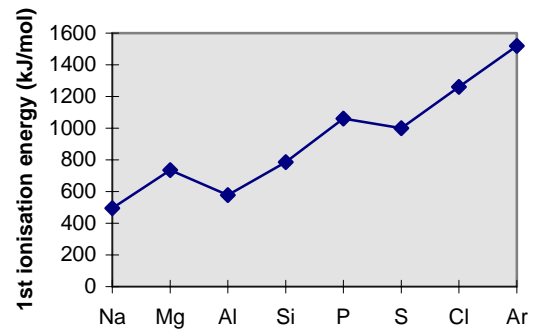
## Trends across Period 3

Periodicity = pattern in properties across a row which is repeated in each row

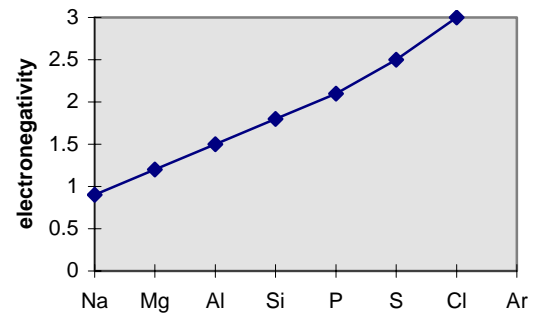
### a) Atomic radius



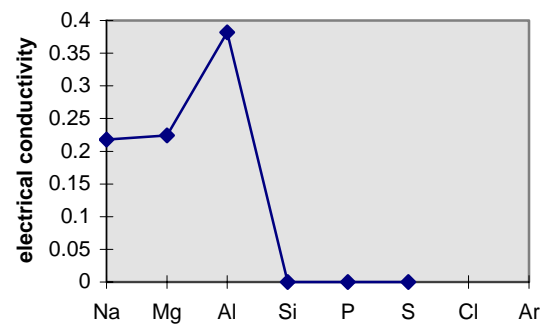
**b) 1st ionisation energy**



**c) Electronegativity**



**d) Electrical conductivity**



**e) Melting and boiling point**

