## **EASY QUESTIONS**

- 1) What is a triad? List any three triads.
- 2) Why was Newlands method of classification called Newlands Octaves?
- 3) On what basis did Mendeleev classify the elements .
- 4) What were the merits and demerits of Mendeleev's periodic table.
- 5) What variation do you notice in the atomic size as you move from left to right in a period ,give reason for your answer.

Try these you will need to investigate a bit -.( High acheivers must try this as it will help you in grade 11)

- 1) What are representative elements . Name some of them .
- 2) Why are group one elements called ALKALI METALS?
- 3) The radii of a cation is much smaller than its corresponding atom . justify .
- 4) What is the outer shell electronic configuration of chalcogens?
- 5) What is a diagonal relationship .name two metals ( grp 1 and grp 2) which show this relationship . Give one reason for the same .
- 6) Alkali metals are called S block elements . Give reasons
- 7) The element Rubidium (Rb) has an atomic number of 37 and a mass of 85.
  - (a) How many electrons, protons and neutrons are there in an atom of Rubidium?

Based on your knowledge of Lithium, Sodium and Potassium PREDICT ...

- (b) the physical properties of rubidium eg appearance, melting and boiling point atomic size, metallic nature, and its density ( you may just say high or low )
  - (c) whether its melting or boiling point is higher or lower than that for potassium (group trends)
  - (d) the number of electrons in the outer shell and the symbol of the rubidium ion (explain)
  - (e) the formula of rubidium chloride and rubidium oxide and the type of chemical bonding involved
  - (f) what you would observe on adding rubidium to water containing universal indicator, and name the products formed and give a symbol equation for the reaction
  - (g) whether rubidium is more or less reactive than potassium, explain the group reactivity trend
- 8) The element Astatine is in the same group as CI, Br and I, but below iodine. PREDICT
  - .....the appearance, physical state and formula of the molecules that make up the element will it be more or less reactive than fluorine .Give reason for you answer.