2nde Int. Chemistry revision list - Nov 2016

Know some key points about the history of the periodic table. See homework and class notes.

Be able to **deduce** the electron arrangement of atoms and ions such as Na = (2, 8, 1) and Na^+ = (2,8) look back at your 3ème booklet if you still have it and see here:http://www.bbc.co.uk/schools/gcsebitesize/science/add_ocr_pre_2011/periodic_table/electronsrev4.shtml

http://www.bbc.co.uk/schools/gcsebitesize/science/add_ocr_pre_2011/periodic_table/electronsrev5.shtml

Understand the relation between electron shells (energy levels) and positions of elements in the P.T.

Understand the relation between numbers of outer electrons and the position of elements in the periodic table.

Be able to **explain** the meaning of the term "isotopes"

Be able to **describe general trends** in atomic radius, electronegativity and ionization energy across periods and down groups **and the reasons for the trends**.

Be able to **deduce** a formula of an ionic compound **when given its component ions and an ions table** e.g. potassium sulphate = K_2SO_4

Be able to **give a description** of ionic and covalent bonding

Be able to **draw** simple dot and cross structures of covalently bonded elements & compounds

Compare properties of ionic and covalent compounds

Be able to **give detailed explanations** (including equations) for the behaviour of group 1 metals with water and between group 17 elements and solutions of their salts.

Be able to **define** the term 'empirical formula' and **solve** simple percentage composition problems given practical information from an experiment.

N.B. There will be no questions involving moles in this compo.