Unit 7 Outline

7.1 – Modern Periodic Table and Trends

- electronegativity, ionization energy, atomic radius, ionic radius, melting point

7.4 – Lewis Dot Diagrams

7.4b – Electron Configuration

- s, p, d, f orbitals, core notation and full notation

7.5 – VSEPR

- lewis dot diagrams, areas of electron density around the central atom, determination of shape of molecule (linear, trigonal planar, tetrahedral, trigonal pyramidal, bent/angular, trigonal bipyramidal, octahedral), bond angles

7.6 Bonding

- electronegativity value, ionic and covalent bonding

7.7 Hybridization

- sp, sp2, sp3, sp3d, sp3d2