Year 11 AP 1 – Science

Ormiston Horizon Academy

How to revise Science:

Memorise the facts

- Make flash cards
- Produce mind maps
- Write the information in a book

Practice answering questions

- Use online tests
- Use Sparxscience
- Use BBC bitesize multichoice tests at the end of units

Chemistry Foundation

- History of the atom and its development
- Structure of the atom and properties of the subatomic particles
- Data analysis and use of decimal places
- Electronic structure
- Comparison of models of compounds

- Periodic table
- Metallic and covalent bonding
- Representing elements, compounds in particle diagrams
- Properties of ionic compounds
- Carbon structures
- Relative formula mass and calculation of the percentage by mass
- Naming compounds

- Word equations
- Types of chemical reaction
- Reacting masses
- Detecting an anomalous value from a graph
- Calculation of a mean

- Difference between elements, compounds and mixtures
- Metal extractions – iron and aluminium
- Alloys and their properties

- Neutralisation reactions
- pH scale and indicator
- Properties of acids and alkalis
- Reaction profiles
- Making soluble salts method and apparatus required

- Electrolysis of ionic compounds
- Plotting data from a table
- Calculating concentrations

- Exothermic and endothermic reactions

Chemistry Higher

- Electrolysis of ionic compounds
- Plotting data from a table
- Calculating concentrations

- Exothermic and endothermic reactions
- Relative formula mass and calculation of the percentage by mass

- Atoms, ions and elements
- Alpha particle scattering experiment
- Trends in group 7 elements
- Ionic bonding
- Word equations

- Metal extractions – iron and aluminium
- Reduction and oxidation
- Alloys and their properties

- State symbols
- Concentration calculations
- Covalent bonding dot and cross diagrams
- The difference between weak and strong acids
- Bond energies and energy change calculations in reactions

- Data analysis and interpretation from line graphs
- Reacting masses
- Balanced equations

- Comparison of models of compounds
- Compound formulas
- Metallic bonding and their properties
- Giant covalent compounds vs polymer structures