

Long Term 2 Year Plan Greatfields Science Department

KS5 Route Chemistry OCR

		HT1	HT2	HT3	HT4	HT5	HT6
Y12	Teacher 1 (5 hours/ fortnight)	Introduction (1 hr) 2.1.1 Atomic structure and isotopes (2 hrs) 2.1.2 – Compounds, formulae and equations (3 hours) 2.1.3 Amount of substance (7 hours) PAG 1.2 PAG 1.3	2.2.2 Bonding and structure (6hrs) 4.1.1 – Basic concepts of organic chemistry (8 hrs)	4.1.2 Alkanes (3hrs) 4.1.3 Alkenes (5 hrs) 5.4 (future)	4.2.1 – Alcohols (6 hrs) 4.2.2 – Haloalkanes (6hrs) PAG 5.1	4.2.3 Organic synthesis (8 hrs) PAG 5.2 4.2.4 Analytical techniques (5 hrs)	Revision 6.1.1 Aromatic compounds (4 hrs)
	Teacher 2 (4 hours/ fortnight)	Baseline test (1 hr) 2.2.1 Electron structure (3 hrs) 2.1.4 Acids (6 hrs) PAG2.1 2.1.5 – Redox (4 hrs)	3.1.1 Periodicity (5 hrs) 3.1.2 Group 2 (4 hrs)	3.1.3 The halogens (5hrs) 3.1.4 Qualitative analysis (4 hrs) PAG 4.2	3.2.1 – Enthalpy changes (10 hrs) PAG 3.1 PAG 3.3 3.2.2 – Reaction rates (4 hrs)	3.2.2 – Reaction rates (6 hrs) 3.2.3 – Chemical equilibrium (6 hrs)	Revision 5.1.1 How fast? (4hrs)
Y13	Teacher 1 (5 hours/ fortnight)	6.1.1 Aromatic compounds (10hrs) Pag 7.1 6.1.2 Carbonyl compounds (6 hrs)	6.1.3 Carboxylic acids and esters (6 hrs) 6.2.1 – Amines (4 hrs) Pag 7.2 Pag 7.3 6.2.2 Amino acids, amides and chirality (4 hrs) 6.2.3 Polyesters and polyamides (4 hrs)	6.2.4 Carbon–carbon bond formation (4 hrs) 6.2.5 Organic synthesis (4 hrs) PAG6.1	6.3.1 Chromatography and qualitative analysis (8 hrs) PAG6 6.3.2 Spectroscopy (8hrs)	Revision	Final Exams
	Teacher 2 (4 hours/ fortnight)	5.1.1 How fast? (12 hrs) PAG 10.1 PAG9.1	5.1.2 How far? (8 hrs) 5.1.3 Acids, bases and buffers (4 hrs)	5.1.3 Acids, bases and buffers (9 hrs) PAG11.1 5.2.1 Lattice enthalpy (5 hrs)	5.2.3 Redox and electrode potentials (8 hrs) PAG 8.1 electrochemical cells Section 5.3 –	Transition elements (9 hrs) 5.3.2 Qualitative analysis (2 hrs) PAG4.3	Final Exams

Module 2: Foundations in chemistry

Module 3: Periodic table and energy

Module 4: Core organic chemistry

Module 5: Physical chemistry and transition elements

Module 6: Organic chemistry and analysis