Year 2 (30 weeks)

Ref	Topic		Practical	No weeks
3.1.9	**Rate equations**	**P**	7 Measuring the rate of a reaction • by an initial rate method • by a continuous monitoring method	3
3.3.15	**Nuclear magnetic resonance spectroscopy**	**O**		1
3.3.8	**Aldehydes and ketones**	**O**		1
3.3.7	**Optical isomerism**	**O**		1
3.3.10	**Aromatic chemistry**	**O**		1
3.1.8	**Thermodynamics**	**P**		2.5
3.1.10	**Equilibrium constant K_c for homogeneous systems**	**P**		2
3.1.12	**Acids and Bases**	**P**	9 Investigate how pH changes when a weak acid reacts with a strong base 0and when a strong acid reacts with a weak base	2.5
3.3.9	**Carboxylic acids and derivatives**	**O**	10 Preparation of • a pure organic solid and test its purity • a pure organic liquid	2
3.3.11	**Amines**	**O**		1
3.3.12	**Polymers**	**O**		1
3.3.16	**Chromatography**	**O**	12 Separation of species by thin-layer chromatography	1
3.3.13	**Amino acids, proteins and DNA**	**O**		2
3.3.14	**Organic synthesis**	**O**		1
3.2.4	**Properties of Period 3 elements and their oxides**	**I**		1
3.1.11	**Electrode potentials and electrochemical cells**	**P**	8 Measuring the EMF of an electrochemical cell	2