



LabSkills activity

AQA AS/A2 specification

Techniques	
Reflux	Unit 2
	Unit 3
	Unit 6
Recrystallisation	Unit 6
Filtration	Unit 6
Distillation	3.1.6 Alkanes
	Unit 3
	Unit 6
Solvent extraction	Unit 6
Melting point	3.1.3 Bonding
	3.1.4 Periodicity
	3.2.6 Group 2, the alkaline earth metals
	Unit 6
Thin layer chromatography	
Titration	Unit 3
	3.4.3 Acids and bases
Titration curves	3.4.3 Acids and bases
	Unit 6
Collection of a gas	Unit 3
Enthalpy change of neutralisation	3.2.1 Energetics
	Unit 3
	3.5.1 Thermodynamics
Enthalpy change of combustion	3.2.1 Energetics
	Unit 3
Colorimetry	
Electrochemical cells	3.5.3 Redox equilibria
Tests for inorganic compounds	3.2.5 Group 7, the halogens
	3.2.6 Group 2, the alkaline earth metals
	Unit 3
Tests for organic compounds	3.2.8 Haloalkanes
	3.2.9 Alkenes
	3.2.10 Alcohols
	Unit 3
	3.4.5 Compounds containing the carbonyl group
	3.4.7 Amines
	3.4.10 Organic synthesis and analysis
Transition metals	3.5.4 Transition metals
	3.5.5. Reactions of inorganic compounds in aqueous solution
	Unit 6
Mass spectrometry	3.2.11 Analytical techniques
	3.4.11 Structure determination
IR spectroscopy	3.2.11 Analytical techniques
	3.4.11 Structure determination
NMR spectroscopy	3.4.11 Structure determination
GC analysis	3.4.11 Structure determination
HPLC analysis	
Stoichiometry and yield	3.1.2 Amount of substance

Quantities and concentration	3.1.1 Atomic structure
	3.1.2 Amount of substance
Errors and significant figures	All units
Reaction rates	3.2.2 Kinetics
	3.4.1 Kinetics
Equilibrium constants	3.4.2 Equilibria
	Unit 6
Weights and measures	All units
Preparing solutions	All units
Heating	All units

Experiments

Oxidation of alcohols	3.2.10 Alcohols
	Unit 3
Enthalpy change of neutralisation	3.2.1 Energetics
Enthalpy change of combustion	3.2.1 Energetics
	Unit 3
Preparation of an alkene	3.1.6 Alkanes
	3.2.10 Alcohols
	Unit 3
Preparation of an organic acid	3.2.10 Alcohols
	3.4.5 Compounds containing the carbonyl group
Preparation of a halogenoalkane	3.2.8 Haloalkanes
Acid/base titration	Unit 3
	3.4.3 Acids and bases
	Unit 6
RMM of volatile liquid	3.1.2 Amount of substance
	3.1.3 Bonding
	Unit 3
Iodine/thiosulfate titration	3.2.4 Redox reactions
	Unit 6
Identification of an unknown	3.2.5 Group 7, the halogens
	3.2.6 Group 2, the alkaline earth metals
	3.2.8 Haloalkanes
	3.2.9 Alkenes
	Unit 3
	3.4.5 Compounds containing the carbonyl group
	3.4.10 Organic synthesis and analysis
	3.5.4
Enthalpy of hydration (Hess' law)	3.2.1 Energetics
	Unit 3
Multi-stage synthesis - aspirin	3.4.5 Compounds containing the carbonyl group
	3.4.10 Organic synthesis and analysis
	Unit 6
Preparation of an ester	3.4.5 Compounds containing the carbonyl group
Hydrolysis of an ester	3.4.5 Compounds containing the carbonyl group

Nitration of an aromatic	3.4.6 Aromatic chemistry
Preparation of chrome alum	3.5.4 Transition metals
	3.5.5. Reactions of inorganic compounds in aqueous solution
Iron(II)/permanganate titration	3.2.4 Redox reactions
	3.5.4 Transition metals
	Unit 6
Reaction of iodine and propanone	3.2.2 Kinetics
	3.4.1 Kinetics
	Unit 6
Iodine clock	3.2.2 Kinetics
	3.4.1 Kinetics
	Unit 6
Investigating reaction equilibria	3.4.2 Equilibria
	Unit 6

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