

SCIENCE – CHEMISTRY



ALDER
Community High School

YEAR 11 25-26

Threshold concept lesson

	Topic 6 – Atomic structure	Lessons
Year 11 Autumn	Crude oil and hydrocarbons	1
	Fractional Distillation	1
	Cracking and hydrogen	1
	Pollution	1
	Allotropes of carbon	1
	Earths early atmosphere	1
	Changing atmosphere	1
	Modern Atmosphere	1
		8
Year 11 Autumn	Topic 7 – Separate Chemistry	Lessons
	Hydrocarbons	1
	Reactions of alkenes	1
	Alcohols	1
	Ethanol production	1
	Carboxylic acids	1
	Addition polymerisation	1
	Condensation polymerisation	1
	Composites and choosing materials	1
	Nanoparticles	1
		9
Year 11 Autumn	Topic 8 – States of matter and mixtures	
	States of matter (+ changes of state)	1
	Mixtures and purity	1
	Filtration and Crystallisation	1
	Chromatography (2 lessons)	2
	Distillation	1
	Water purification	1
		7
Year 11 Spring	Topic 9 – Metals	
	Reactivity series	1
	Displacement	1
	Redox (H)	1
	Metal ores	1

	Biological methods of extraction (H)	1
	Dynamic Equilibria	1
	Fertilisers and Haber process (Triple)	1
	Le Chatelier's principle (Triple)	1
		8
Year 11 Spring	Topic 10 - Electrolysis	
	Electrolysis Introduction	1
	Electrolysis – molten	1
	Electrolysis - solution	1
	Electrolysis half equations (H)	1
	Electrolysis (Core practical)	1
Year 11 Spring		5
	Topic 11 – Acids	
	Acids, alkalis and indicators	1
	Strong and weak acids (H)	1
	Investigating pH (core practical)	1
	Neutralisation - metals and acids (practical)	1
	Neutralisation - Metal carbonates and acids (practical)	1
	Naming salts	1
	Making copper sulphate (core practical)	1
	Insoluble salts	1
Year 11 Spring	Titration	1
		9
	Topic 12 – Separate Chemistry	
	Transition Metals (Triple)	1
	Electroplating (Triple)	1
	Chemical and fuel cells (Triple)	1
	Alloys (Triple)	1
	Yields and atom economy (Triple)	1
	Concentrations (Triple)	1
	Titration calculations (Triple)	1
	Molar volume of gases (Triple)	1
		8



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