

Yr12 Chemistry – Unit 3.1

MAGHULL HIGH SCHOOL – CURRICULUM MAP



	Sequence			
TOPIC (S) OXIDATION, REDUCTION AND REDOX EQUATIONS	1. Oxidation and reduction 2. Redox reactions			
Knowledge & Skills development	<ul style="list-style-type: none"> Know oxidation is the process of electron loss and oxidising agents are electron acceptors. Know reduction is the process of electron gain and reducing agents are electron donors. Know the rules for assigning oxidation states. 		<ul style="list-style-type: none"> Work out the oxidation state of an element in a compound or ion from the formula Write half-equations identifying the oxidation and reduction processes in redox reactions Combine half-equations to give an overall redox equation 	
Assessment / Feedback Opportunities	Exam questions – teacher assessed	Exam questions – self assessed	Extended writing task – teacher assessed	Topic assessment
Cultural Capital	<ul style="list-style-type: none"> 			
SMSC / Promoting British Values (Democracy, Liberty, Rule of Law, Tolerance & Respect)	<ul style="list-style-type: none"> 			
Reading opportunities	<ul style="list-style-type: none"> Recommended Read: https://www.khanacademy.org/science/chemistry/chemical-reactions-stoichiome/types-of-chemical-reactions/a/oxidation-number 			
Key Vocabulary	Reduction, oxidation, redox, electron donor, half equation, Independent Variable, Dependent Variable, Control Variables, Method, Conclusion, Precaution, Evaluation, Reliable, Precision, Valid, Anomaly, Describe, Explain, Compare, Analyse, Calculate, Suggest, Absolute, Uncertainty, Error			
Digital Literacy	MSOffice35 apps including SharePoint			
Cross-Curricular Links	Numeracy/Maths – averages (means), reading scales, graph plotting, lines of best fit, using and rearranging equations, using scientific calculators			
Careers				