

MAGHULL HIGH SCHOOL – CURRICULUM MAP

Unit: REDOX	1. Oxidation and reduction	2. Redox reactions	
LESSONS			
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	Formative Assessment Teacher questioning Quizzes Exam style questions	Summative assessment End of topic assessment Exam questions in future end of topic assessments to assess recall	
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		
Literacy/Reading Opportunities	Subject specific vocabulary introduced before reading of related texts Word etymology from Latin and Greek roots Reading of simple and complex sentences, paragraphs, articles Scientific writing including structuring methods, comparisons and evaluations		
Cross Curricular Themes	Numeracy/Maths – averages (means), reading scales, graph plotting, lines of best fit, using and rearranging equations, using scientific calculators, significant figures		
Personal Development (Including British Values, RSE, Citizenship)	None		
Career Opportunities	Chemist		