

Learning and Assessment Overview



MALANDA
STATE HIGH SCHOOL

12 Chemistry

		Unit	Start/Length	Topics/Concepts/Skills/Inquiry	Assessment	Checkpoints	Due Date
Term 1 Term 2	1.	Unit 3 Chemical equilibrium systems	Start: Term 4, Wk 5 (<i>Year 11</i>)	<p><u>Unit 3</u> includes the following subject matter: chemical equilibrium; factors that affect equilibrium; equilibrium constants; properties of acids and bases; pH scale; Bronsted-Lowry model; dissociation constants; acid-base indicators; volumetric analysis; redox reactions; electrochemical cells; galvanic cells; standard electrode potential; and electrolytic cells.</p>	Data Test (Topics 1 and 2)		<u>Week 5</u> 22/02/2024
	2.	Oxidation and reduction	End: Term 1, Wk 8		IA2 Student Experiment (Topics 1 and 2)	9/05/2024 Submit draft <i>See task sheet</i>	<u>Week 5</u> 16/5/2024
		Unit	Start/Length	Topics/Concepts/Skills/Inquiry	Assessment	Checkpoints	Due Date
Term 3 Term 4	1.	Unit 4 properties and structure of organic materials	Start: Term 1, Wk 9	<p><u>Unit 4</u> includes the following subject matter: structure of organic compounds; physical properties and trends; organic reactions and reaction pathways; organic materials: structure and function; analytical techniques; chemical synthesis; green chemistry; macromolecules: polymers, proteins and carbohydrates; and molecular manufacturing.</p>	IA3 Research Investigation (Unit 4, Topic 1,2)	Submit draft 18/7/2024 <i>See task sheet</i>	<u>Week 3</u> 25/7/2024
	2.	chemical synthesis and design	End: Term 3, Wk 10		Block Examination (All Units)		TBA