

# St. John's Senior School



**Subject: Chemistry**  
**Teacher: S. Payne**

**Form: 4th**  
**Term: Autumn 2023**

WEEK	WEEK BEGINNING	TOPIC
1	4 <sup>th</sup> September	MS1- MS5: Maths Skills and RMM/ % mass : 3 lessons
2	11 <sup>th</sup> September	C1.3: Separating mixtures : Theory and C1.4 Distillation practical
3	18 <sup>th</sup> September	C1.4: Separating mixtures: Chromatography <b>Required Practical:6</b>
4	25 <sup>th</sup> September	C1.1: Atomic structure/Electronic structure/ Isotopes C1.5 History of the Atom
5	2 <sup>nd</sup> October	<b>MINI TEST: 1 lesson</b> / C1.5: History of the Atom: 2 lessons
6	9 <sup>th</sup> October	C3.3 Bonding and C3.4 Giant Ionic structure and properties
7	16 <sup>th</sup> October	C3.5 Covalent Bonding and C3.6 Molecular structure and properties
<b>HALF - TERM</b>		
8	30 <sup>th</sup> October	C3.9 and C3.10 Metallic bonding and Structure Heating substance practical
9	6 <sup>th</sup> November	C3.8, C1.11 and C1.12: Nanoscience and C3.7 Giant covalent structure
10	13 <sup>th</sup> November	<b>END OF TERM EXAMINATIONS</b>
11	20 <sup>th</sup> November	C2.1 Development of Periodic Table
12	27 <sup>th</sup> November	C2.3 Group 1 Alkali Metals
13	4 <sup>th</sup> December	C2.4 Group 7 Halogens

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WEEK	WEEK BEGINNING	TOPIC
1	3 <sup>rd</sup> January (Wednesday)	C2.4 Group 7 Halogens : Halogen/ Halide displacement
2	8 <sup>th</sup> January	C2.5 Transition Metals and Noble Gases
3	15 <sup>th</sup> January	C1.2 Chemical Equations: conservation of mass practical C4. Masses from equations
4	22 <sup>nd</sup> January	Quantitative Chemistry/Moles
5	29 <sup>th</sup> January	Quantitative Chemistry/
6	5 <sup>th</sup> February	C5 Chemical changes / Acids , Bases and Salts
<b>HALF - TERM</b>		
7	19 <sup>th</sup> February	C5 Chemical changes / Acids , Bases and Salts <b>Required</b> <b>Practical 1: Making copper Sulfate (Acid+ Metal Oxide)</b>
8	26 <sup>th</sup> February	C5 Chemical changes / Acids , Bases and Salts
9	4 <sup>th</sup> March	<b>Required practical 2: Titration and calculation</b>
10	11 <sup>th</sup> March	C5.8 Strong and weak acid (practical)
11	18 <sup>th</sup> March	C5.1: Chemical changes/ Reactivity
		C6: Electrolysis

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WEEK	WEEK BEGINNING	TOPIC
1	16 <sup>th</sup> April (Tuesday)	Extraction of Aluminium
2	22 <sup>nd</sup> April	Electrolysis
3	29 <sup>th</sup> April	<b>Required Practical 3 : Electrolysis</b>
4	7 <sup>th</sup> May	C7.5 and C7.6 Chemical Cells practical
5	13 <sup>th</sup> May	Fuel cells
6	20 <sup>th</sup> May	Energy changes
<b>HALF - TERM</b>		
7	3 <sup>rd</sup> June	<b>END OF TERM EXAMINATIONS</b>
8	10 <sup>th</sup> June	Energy changes
9	17 <sup>th</sup> June	<b>Energy Changes /Required practical 4</b>
10	24 <sup>th</sup> June	Bond Energy Calculations
11	1 <sup>st</sup> July	Consolidation