St. John's Senior School

Subject: Chemistry **Form: 4th Form**
Teacher: Mrs. Payne/ Dr. Parekh **Term: Autumn 2025**

WEEK	WEEK BEGINNING	TOPIC
1	8th September (Tuesday)	Review elements, Mixtures and Compounds Separating Mixtures
2	15th September	C1.1: Atomic structure/Electronic structure/ Isotopes C1.5 History of the Atom
3	22nd September	C1.1: Atomic structure/Electronic structure/ Isotopes C1.5 History of the Atom
4	29th September	C3.3 Ionic Bonding C3.4 Giant Ionic structure and properties
5	6th October	C3.5 Covalent Bonding
6	13th October	C3.6 Molecular structure and properties C3.7 Giant covalent structure/Diamond and Graphite
7	20th October	C3.9 and C3.10 Metallic bonding and Structure Heating substance practical
HALF - TERM		
8	3rd November	3.8, C1.11 and C1.12: Nanoscience/ Fullerenes and GrapheneC
9	10th November	C2.1 Development of Periodic Table C2.3 Group 1 Alkali Metals
10	17th November	**END OF TERM EXAMINATIONS**
11	24th November	C2.4 Group 7 Halogens
12	1st December	C2.4 Group 7 Halogens : Halogen/ Halide displacement
13	8th December	C2.5 Transition Metals and Noble Gases

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WEEK	WEEK BEGINNING	TOPIC
1	6th January (Tuesday)	C1.2 Chemical Equations: conservation of mass practical C3.4. Masses from equations
2	12th January	C3.1Quantitative Chemistry/Recap RMM/ Moles
3	19th January	C3.2 Quantitative Chemistry/ Calculating masses from equations
4	26th January	**MINI- TEST/** Volumes of gases
5	2nd February	C5 Chemical changes / Acids , Bases and Salts
6	9th February	C5 Chemical changes / Acids , Bases and Salts **Required Practical 1: Making copper Sulfate** (Acid+ Metal Oxide)
HALF - TERM		
7	23rd February	C5 Chemical changes / Acids , Bases and Salts
8	2nd March	**Required practical 2: Titration and calculation**
9	9th March	C5.8 Strong and weak acid (practical)
10	16th March	C5.1: Chemical Changes/ Reactivity
11	23rd March	C6: Electrolysis and Redox equations
	27th March	**Break up For Easter**

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WEEK	WEEK BEGINNING	TOPIC
1	20th April	Electrolysis of Aluminium Oxide Electrolysis of solutions
2	27th April	**Required Practical 3 : Electrolysis of solutions**
3	5th May (Tuesday)	C7.5: Chemical Cells
4	19th May	C7.6: Fuel cells/ Revision
HALF - TERM		
5	1st June	**END OF TERM EXAMINATIONS**
6	8th June	Energy Changes: Exo and Endo practical Energy level diagrams
7	15th June	**Required practical 4**
8	22nd June	Bond Energy Calculations
9	29th June	Consolidation
10	6th July	Consolidation