Year 8 Overview 2023-24 – Chemistry

Units Studied & Learnin	g Outcomes	Key Concepts & Assessment
esson Sequence of Content: esson 1-Identify atoms, elements, nixtures esson 2- Structure of the atom esson 4-Mendeleev's Periodic Table esson 5-Organisation of the Periodic esson 6 & 7-Groups of the Periodic esson 8-Quick quiz assessment	compounds and le lic Table	Rey Concepts & Assessment
esson 9-Long answer question	,	
N/A Understand the arrangement of the periodic table and basic structure of the atom	Year 9 – Atomic structure (charge and mass) Group 1 properties Year 10-Isotope. Ion formation. Patterns in the periodic table. Year 11 – Trends in the period table, groups 1,7,0. Atomic structure and electronic configuration.	
GW: Recall definitions of key to compound and mixture. BI: Describe the arrangement of EW: Explain the organisation of how this links to reactivity of co	of an atom. f the Periodic Table and	t i
Overview of Unit/No. lessons Reactions of Metals: 11 lessons Lesson Sequence of Content: Lesson 1-Properties of Metals Lesson 2-pH of Metal and Non-Metals	al Oxides	

Lesson 3-Metals and Water Lesson 4-Metals and Oxygen Lesson 5 & 6-Metals and Acid HSW

Lesson 7-Metal Carbonates and Acid

Lesson 8-Metal Oxides and Acid

Lesson 9-Displacement of Metals

Lesson 10-Quick quiz assessment

Lesson 11-Long answer question

Prior	Current (Y8)	Next
Year 6-	Describe the	Year 9 –
Properties	properties and	Displacement and
of materials	reactions of	chemical equations
	Metals/Metal	of metals and acid
	compounds	reactions.
	with acids	Extracting metals.
		Year 11 – Reactions
		of metals (making
		salts)

- GW: State properties of metals and non-metals
- **BI**: Describe reactions of metals/metal compounds with acid
- EW: Explain the reactivity of metals in terms of displacement reactions

Overview of Unit/No. lessons

Types of Reactions: 10 lessons

<u>Lesson Sequence of Content</u>:

Lesson 1-Difference between a chemical and a physical change

Lesson 2-Chemical Reactions

Lesson 3-Complete and Incomplete Combustion

Lesson 4-Fire Triangle

Lesson 5-Thermal Decomposition

Lesson 6 & 7-Conservation of Mass HSW

Lesson 8-Exothermic and Endothermic Reactions

Lesson 9-Quick quiz assessment

Lesson 10-Long answer question

Prior	Current (Y8)	Next
Prior N/A	Be able to describe different types of chemical and physical reactions. Know the law of conservation of mass.	Year 9 – Combustion. Year 10- Reversible reactions. Exothermic and endothermic reactions with interpretation of reaction profiles.

GW: State the difference between chemical and physical changes

•	BI: Describe the reactants and products of combustion reactions	
•	EW: Represent exothermic and endothermic reactions as energy level diagrams	
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