

GRADE 10 TERM PLAN

CHEMISTRY

2023-2024

SEPTEMBER 4 – DECEMBER 19

Subject to Change

		THEORY	LABS, QUIZZES & ASSIGNMENTS
SEPTEMBER			
September 4-8	WEEK 1	INTRODUCTION <ul style="list-style-type: none">● Classroom Rules● Lab Books● Lab Equipment● List of Labs● Classrooms Expectations● List of Topics	
September 11-15	WEEK 2 3 Sessions	INTRODUCTION <ul style="list-style-type: none">● Classroom Rules● Lab Books● Lab Equipment● List of Labs● Classrooms Expectations● List of Topics INTRODUCTION TO LAB SKILLS AND LAB RULES	LAB 1 - PRACTICE P&D
September 18-22	WEEK 3 3 Sessions	STATES OF MATTER <ul style="list-style-type: none">● Diffusion● Osmosis● Brownian Motion● Temperature time graphs Sec A Obj 1.1 – 1.3	LAB #1 - Diffusion of ammonia and hydrochloric acid (video)
Sept 25-29	WEEK 4 3 Sessions	SEPARATION TECHNIQUES	

		<ul style="list-style-type: none"> • Distinguish between solutions suspensions and colloids • Identify different types of solutions • Chromatography & Filtration, decanting, solvent extraction, simple distillation, fractional distillation, Recrystallisation, separating funnel, etc. • Extraction of sucrose from sugar cane • Solubility Curves <p>Sec A Obj 2.1 - 2.5</p>	<p>VIDEO – To identify, understand and report on the different separation techniques used in the making of sugar.</p>
OCTOBER			
October 2-6	WEEK 5 3 Sessions	<ul style="list-style-type: none"> • Solubility Curves <p>ATOMIC STRUCTURE</p> <ul style="list-style-type: none"> • Diagrams of elements 1-20 Atomic and relative atomic mass • Neutrons, protons, electrons • Isotopes, uses of radioactive isotopes <i>(START PERIODIC TABLE if possible)</i> <p>Sec A Obj 3.1 – 3.7</p>	LAB #3 - Chromatography
October 9-11	WEEK 6 3 Sessions	<p>PERIODIC TABLE AND PERIODICITY</p> <ul style="list-style-type: none"> • Basis of periodic table • Trends in group I • Trends in group II • Trends in group VII <p>Sec A Obj 4.1 - 4.5</p>	<p>LAB #3 – Solubility</p> <p>Quiz or Assignment or Worksheet All topics up to this point</p>
<p>October 12-16 MID-TERM BREAK</p>			
October 17-20	WEEK 7 3 Sessions	PERIODIC TABLE AND PERIODICITY	

		<ul style="list-style-type: none"> • Basis of periodic table • Trends in group II • Trends in group VII <p>Sec A Obj 4.1- 4.5</p>	
<p>1st Standardized Test October 23-27 WEEK 8</p>			
October 30 – November 3	WEEK 9 3 Sessions	<p>STRUCTURE AND BONDING</p> <ul style="list-style-type: none"> • Ionic, covalent and metallic <p>Sec A Obj 5.1 – 5.6</p> <ul style="list-style-type: none"> • Giant ionic and molecular structures- structures with properties • Allotropy <p>Sec A Obj 5.7 - 5.8</p>	LAB #5 – Trends in Group II
NOVEMBER			
November 6-10	WEEK 10 3 Sessions	<p>FORMULA WRITING</p> <ul style="list-style-type: none"> • Formulae Writing • Naming Compounds (Ionic & Covalent) <p>Sec A Obj 5.3</p>	WORKSHEET – Structure and Bonding
November 13-17	WEEK 11 3 Sessions	<p>FORMULA WRITING</p> <ul style="list-style-type: none"> • Formulae writing • Naming Compounds (Ionic & Covalent) <p>Sec A Obj 5.3</p>	LAB #6 - Properties of Ionic and Covalent Compounds.
November 20-24	WEEK 12 3 Sessions	<p>TYPES OF CHEMICAL REACTIONS</p> <ul style="list-style-type: none"> • Synthesis/ combination 	

		<ul style="list-style-type: none"> • Decomposition 	
		Sec A Obj	
November 27 – December 1	WEEK 13 3 Sessions	TYPES OF CHEMICAL REACTIONS <ul style="list-style-type: none"> • Displacement • (Do reactivity series) • Double displacement • effect on heat on metallic compound (carbonate, nitrates etc) • Neutralization 	WORKSHEET - Writing formula and naming compounds LAB #7 - Types of Chemical Reactions
		Sec A Obj	
DECEMBER			
2nd Standardized Test December 4-8 WEEK 14			
December 11-15	WEEK 15 3 Sessions	For the teacher to decide	Completion and write-up of Lab Books
END OF TERM DECEMBER 19, 2023			