

## GRADE 11 CHEMISTRY TERM PLAN

2023 – 2024

SEPTEMBER 4 – DECEMBER 19

Subject to Change

DATES	WEEKS	TOPICS	LABS/QUIZ/TESTS/ WORKSHEETS
<b>SEPTEMBER</b>			
September 4-8	<b>WEEK 1</b> 3 Sessions	<b>METALS AND NON METALS</b> <ul style="list-style-type: none"> <li>● Introduction to new teachers &amp; students</li> </ul>	
September 11-15	<b>WEEK 2</b> 3 Sessions	<b>METALS AND NON METALS - 1 sessions</b> <ul style="list-style-type: none"> <li>● Review of End of year exams</li> <li>● Extraction of metals and non-metals (Aluminium, Iron and Alloys)</li> </ul> <b>MOLE CONCEPT - 2 sessions</b> <ul style="list-style-type: none"> <li>● Definition mole and molar mass</li> <li>● Conversion between moles and mass (perform calculations involving the mole)</li> <li>● Discuss Avogadro's Law</li> <li>● Discuss the Law of Conservation of Matter;</li> </ul>	<b>Discuss and explain answers to questions on the End of Year Exam.</b>  <b>Due date of Summer Quiz</b>
September 18-22	<b>WEEK 3</b> 3 Sessions	<b>MOLES CONTINUED - 3 sessions</b> <ul style="list-style-type: none"> <li>● Calculations involving masses and volumes</li> </ul>	<b>Quiz on mole conversion calculations</b>  - IP P/D review and corrections

		<ul style="list-style-type: none"> <li>• Standard solutions (define the term standard solution) molar concentration mass concentrations</li> <li>• Write balanced equations</li> <li>• Apply the mole concept to equations, both ionic and molecular.</li> </ul>	
September 25-29	<b>WEEK 4</b> 3 Sessions	<b>MOLES CONTINUED</b> 1 sessions <ul style="list-style-type: none"> <li>• Standard solutions, molar concentration mass concentrations</li> <li>• Calculations involving titrations</li> </ul>	<b>LAB # 14 - Volumetric Analysis</b>  P&D of Investigative Project Due
<b>OCTOBER</b>			
October 2-6	<b>WEEK 5</b> 3 Sessions	<b>MOLES/VOLUMETRIC ANALYSIS – 3 sessions</b>  Calculations for volumetric analysis	<b>Worksheet - Mole calculations</b>
October 9-11	<b>WEEK 6</b> 3 Sessions	<b>MOLES/VOLUMETRIC ANALYSIS – 3 sessions</b> Calculations for volumetric analysis	<b>Lab # 15 - Volumetric Analysis</b>
<b>MID-TERM BREAK</b> <b>OCTOBER 12-16, 2023</b>			
<b>Implementation Project of the IP on October 12, 2023 @ 9am - 2pm</b>			
<b>October 17-20, 2023</b> <b>Week 7</b> <b>Recapping Moles/ Labs/Introduction to Organic Chemistry</b>			
<b>1st Standardised Test</b> <b>October 23-27, 2023</b> <b>Week 8</b>			
<b>NOVEMBER</b>			

<p><b>October 30-November 3</b></p>	<p><b>WEEK 9 3 Sessions</b></p>	<p><b>ORGANIC CHEMISTRY - 1 sessions</b></p> <ul style="list-style-type: none"> <li>● sources and uses of hydrocarbons</li> <li>● cracking and fractional distillation</li> <li>● Structural formula and homologous series</li> </ul>	<p><b>LAB # 16 – Volumetric Analysis</b></p>
<p><b>November 6-10</b></p>	<p><b>WEEK 10 3 Sessions</b></p>	<p><b>ORGANIC CHEMISTRY - 3 sessions</b></p> <ul style="list-style-type: none"> <li>● Naming organic compounds and writing structural formulas</li> <li>● Isomerism</li> </ul>	
<p><b>November 13-17</b></p>	<p><b>WEEK 11 3 Sessions</b></p>	<p><b>ORGANIC CHEMISTRY - 3 sessions</b></p> <ul style="list-style-type: none"> <li>● Reactions of alkanes</li> <li>● Reactions of alkenes</li> <li>● Distinguish between alkanes and alkenes</li> </ul>	<p><b>Worksheet - Organic Chemistry</b></p>
<p><b>November 20-24</b></p>	<p><b>WEEK 12 3 Sessions</b></p>	<p><b>ORGANIC CHEMISTRY - 3 sessions</b></p> <ul style="list-style-type: none"> <li>● Reactions of alcohols</li> <li>● Fermentation</li> <li>● Reactions of acids</li> </ul>	<p><b>LAB -Organic PD</b></p>

		<ul style="list-style-type: none"> <li>• Reactions of esters</li> <li>• Saponification</li> <li>• Polymerization</li> </ul>	
<b>DECEMBER</b>			
<b>November 27-December 1</b>	<b>WEEK 13 3 Sessions</b>	<b>ORGANIC CHEMISTRY /RATES OF REACTION – 5 sessions</b> <ul style="list-style-type: none"> <li>• Polymerization</li> <li>• Definition of rates of reaction.</li> <li>• Factors that affect rates of reaction</li> </ul>	<b>Lab # 20 - Saponification</b>
<b>2nd Standardised Test December 4-8 2023 Week 14</b>			
<b>December 11-15</b>	<b>WEEK 15 3 Sessions</b>	<b>RATES OF REACTION</b> <ul style="list-style-type: none"> <li>• Graphical representations and calculations of rates</li> </ul>	<b>Lab #21 - RATE A REACTION</b>
<b>END OF TERM DECEMBER 19, 2023</b>			