**S3/S4 Chemistry**TERM 1 (Aug 13<sup>th</sup> – Nov 14<sup>th</sup> 2020 )

Weeks	Course Outline
Week 1	Revision of previous Knowledge
(August 13 -15)	
Week 2, 3	<ul><li>Rates of reaction</li><li>Everyday consumer products</li></ul>
(Aug 17 -29)	<ul><li>Carboxylic acids</li><li>Calculations from equations</li></ul>
Week 4, 5	alcohols     Calculations from a quations
(Aug 31 – Sep 12)	Calculations from equations
(, tag 31 3cp 11)	Energy from fuels
	<ul> <li>Fuels burn releasing different quantities of energy. The quantity of heat energy released can be determined experimentally and calculated using, Eh = cm∆T</li> </ul>
Week 6	
(Sep 14 – 19)	<ul> <li>Rates of reaction</li> <li>Fuels burn releasing different quantities of energy. The quantity of heat energy released can be determined experimentally and calculated using, Eh = cm∆T</li> </ul>
Week 7, 8	<ul><li>Rates of reaction</li><li>Fuels burn releasing different quantities</li></ul>
(Sep 21 – Oct 3)	of energy. The quantity of heat energy released can be determined experimentally and calculated using, Eh = cm∆T Assessment
Week 9	<ul><li>Functional groups and naming</li><li>Rates of reaction</li></ul>

(Oct 5 – 10)	
Week 10	MID-TERM HOLIDAY
(0ct 12 – 17)	
Week 11	ASSESSMENT OF HALF TERM WORK
(Oct 19 – 24)	<ul> <li>application of skills of scientific inquiry and related chemistry knowledge and understanding</li> <li>Reporting experimental work</li> </ul>
Week 12	application of skills of scientific inquiry and related chemistry knowledge and
(Oct 26 – 31)	understanding • Reporting experimental work
Week 13	Periodic Table and atoms  Pavisians of weit 2
(Nov 2 – 7)	Revision of unit 2
Week 14	Revision of unit 2
(Nov 9 - 14)	Periodic Table and atoms
Nov 14 – 15	END OF TERM 1

**S3/S4 Chemistry**TERM 2 (Nov 16<sup>th</sup> 2020 – Feb 27<sup>th</sup> 2021 )

Week 1	
(Nov 16 – 21)	INTRODUCTION TO UNIT 3
	Atomic number and mass number
Week 2	Calculating numbers of subatomic particles
(Nov 23 – 28)	Metals and properties
Week 3	<ul><li>Isotopes</li><li>Metallic bonding</li></ul>
(Nov 30 – Dec 5)	Reactions of metals
Week 4	<ul><li>Covalent bonding</li><li>Metallic bonding</li></ul>
(Dec 7 – 12)	Reactions of metals
Week 5	Diagrams to show how outer electrons are shared to form the
(Dec 14 -19)	covalent bond(s) in a molecule.  Covalent network structures:  order of reactivity
Week 6	Ionic compounds
(Dec 21 – 23)	<ul><li>Properties and structure</li><li>Redox</li></ul>
(50021 23)	Ion-electron equations
Week 6 - 7	WINTER BREAK
(Dec 24 – Jan 5)	
Week 8	ASSESSMENT
(Jan 6 – 9)	

Week 9 (Jan 11 – 16)	<ul> <li>Properties and structure</li> <li>Metallic bonds, properties and structure</li> <li>Redox</li> <li>Ion-electron equations</li> </ul>
Week 10 (Jan 18 – 23)	<ul> <li>Properties and structure</li> <li>Metallic bonds, properties and structure</li> <li>Redox</li> <li>Ion-electron equations</li> </ul>
Week 11 (Jan 25 – 30)	<ul> <li>Properties and structure</li> <li>Metallic bonds, properties and structure</li> <li>Extraction of metals</li> </ul>
Week 12 (Feb 1 – 5)	<ul> <li>Formulae and reacting quantities</li> <li>Electrochemical cells</li> </ul>
Feb (6 – 9)	MID-TERM HOLIDAY
Week 13 (Feb 10 -13)	<ul> <li>Formulae and reacting quantities</li> <li>Electrochemical cells</li> </ul>
Week 14 (Feb 15 -20)	<ul> <li>Formulae and reacting quantities</li> <li>Electrochemical cells</li> </ul>
Week 15 (Feb 22 – 27)	Assessment/revision
	END OF TERM 2

## S3/S4 Chemistry

## TERM 3 (March 1<sup>st</sup> – June 26<sup>th</sup> 2021)

Week 1	<ul><li>Plastics</li><li>Acids and bases</li></ul>
(March 1- 6)	• Acids and bases
Week 2	Acids and bases     Addition and province tions
(March 8 - 13)	Addition polymerisation
Week 3	<ul><li>Acids and bases</li><li>Addition polymerisation</li></ul>
(March 15 - 20)	- Addition polymensation
Week 4	Acids and bases     Nuclear sharpings
(March 22 - 27)	Nuclear chemistry
Week 5	Acids and bases     Fortilizare
(March 29 – April 1st)	• Fertilisers
Week 5 - 7	APRIL HOLIDAY
(April 2– 17)	
Week 8	Fertilisers
(April 19 - 24)	Naming hydrocarbons
Week 9	Fertilisers
(April 26 – May 1)	Naming hydrocarbons
Week 10	MAY DAY, RAMADHAN/EID
(May 3 - 8)	HOLIDAY
Week 11	RAMADHAN/EID HOLIDAY
(May 10 - 15)	

Week 12	Revision
(May 17 – 22)	Naming hydrocarbons
Week 13	Revision
	Naming hydrocarbons
(May 24 -29)	
May 28 <sup>th</sup> – May 31 <sup>st</sup> , 2021	MID-TERM HOLIDAY
Week 14	Revision
(May 31 – June 5)	Naming hydrocarbons
Week 15	Revision
Week 15	Naming hydrocarbons
(June 7 – 12)	Naming Hydrocarbons
Week 16	Revision
(June 14 – 19)	
Week 17	Revision
(June 21 – 26)	
	END OF TERM 3