YEAR PLAN 2018 - 2019 Grade VIII CHEMISTRY

The academic year is divided into **two** sessions **Session One**: June 2018 to October 2018 **Session Two**: November 2018 to March 2019

Continuous assessments: July, August, September, December , January, February

Summative Assessment I: October 2018 **Summative Assessment II:** March 2019

Please check the **index page** in the notebook for Continuous Assessment marks.

ENDURING UNDERSTANDING: To develop the ability to appreciate achievements in the field of chemistry and its role in nature and society **General Objectives:**

• To gather information regarding various useful elements and compounds in nature.

• To acquire the ability to observe, experiment, hypothesize, infer, handle equipment and make correct recordings.

Project: Presentation on crystalline forms of carbon (diamond and graphite).

Presentation on the extraction of metals from their ores.

Session One: June - October 2018

Duration	TOPICS	Specific Learning Objectives	Activities	Resources
June	Atomic Structure	Knowledge on the sub- atomic particles and	Draw the structure of atoms.	Text book.
	Discovery of sub -atomic particles. Rutherford	electronic configuration.	Electron dot structure of compounds.	Charts/Models showing the
	and Bohr models of atom. Isotopes,	Knowledge on atomic number, mass number,	·	structure of atom
	Radioactivity, chemical bonding	nucleus, extra nuclear parts and valency.		
July	Hydrogen (VIII &IX)	Knowledge on the different methods of	Prepare charts on preparation of	Text book
	Preparation, properties and uses of hydrogen	preparation of hydrogen.	hydrogen.	
		Learns to describe the chemical properties		
		and uses of hydrogen		
		Knowledge on the concepts like oxidation and		
		reduction of hydrogen on the basis of addition		
		or removal of hydrogen.		
August	Chemical reactions(VIII &IX)	Recalls the different types of chemical	Experimental demonstrations.	Text book
	Characteristic of chemical reactions, types of	reactions.	Class room discussions.	
	chemical reactions	Identifies the type of chemical reaction.		
		Learns to identify the different types of		
		oxides.		
		Learns to explain the effect of heat on the		
	0.1	oxides of some metals.		
September	Carbon and its compounds.	Identifies the position of carbon in the	Class room discussions, written work.	
	Crystalline and amorphous forms of carbon. The	periodic table, allotropes of carbon, properties and uses of wood charcoal.	Draws diagram of graphite and diamond.	
	structure and uses of diamond and graphite. Physical and chemical properties of carbon	Learn the applications of Buckminster	diamond.	
	dioxide and carbon monoxide.	fullerene in superconductors and electronic		
	dioxide and Carbon monoxide.	qoods.		
		Learns different forms of carbon.		
		Revision		
		Summative Assessment 1		
	1	Session Two: November 2018 to March 2	019	1
November	Language of Chemistry(VIII &IX)	Recalls symbols of different elements	Prepare charts showing simple	Text book
	Symbols of elements. Formula of compounds.	Learns to derive formulae of compounds on	equations in which states of reactants	
	Balancing of simple equations. Limitations of a	the basis of valencies of elements and	and products are shown	
	chemical equations	radicals.		
		Learns to write chemical equation for a		
		reaction and balance the same.		

	Language of chemistry(Grade- 9) Chemical symbols, formulas, valancy, chemical equations. Relative atomic mass and relative molecular mass.	Recalls the chemical formulas, chemical equations	Work out chemical formulas and balances chemical equations.	Text book
December	Study of Gas Laws(Grade- 9) •Behaviour of gases under change of temperature and pressure. •Boyle's Law, Charles' Law Relationship between Kelvin scale and Celsius Scale of Temperatures.	Predicts the change in volume of gases under variable temperatures and pressures	Solve numerical based on gas laws.	Text book
January	Water(Grade- 9) Physical properties of water Water is a universal solvent Solutions, solubility, crystallisation, hydrated and anhydrous substance.	Recalls the significance of water and its properties.	Test for water of crystallisation .Action of heat on hydrated copper sulphate and cobalt chloride.	Text book
February	Atmospheric pollution (Grade- 9) Acid rain Global warming Greenhouse effect Ozone depletion	Recalls the effect of acid rain on soil and water bodies. Identifies the greenhouse gases.	Conducting experiment in the lab; students observe and take down points and arriving at the conclusions. Power point presentation; quiz	Text book

Textbooks: Concise Chemistry Grade VIII Facilitators: Jiny, Vidya