

YEAR PLAN 2018 - 2019
Grade X CHEMISTRY

The academic year is divided into three sessions.

Session One : June 2018 to October 2018

Session Two: November 2018 to January 2019

Continuous Assessment: June, July, August, December, January,

Summative Assessment 1- June 2018 to October 2018

Model Exam 1: December 2018

Model Exam 2: January 2019

Please check the **Index page** in the notebooks for Continuous Assessment marks

Aim: To give students ample scope and opportunities to observe, explore and talk about things that have been seen in the world around them.

Enduring Understanding. Recognise chemical science as having an important impact on the environment relating to cycles in nature; natural resources and pollution.

General Objectives: To understand the concepts of science and to develop wide range of skills like observation, sequencing and referencing.

To acquire knowledge of terms, concepts, processes and principles related to the subject.

Project: Record on Salt Analysis.

First session- May – October 2018

Duration	Topics	Specific learning objectives	Activities	Resources
May/June	Sulphuric acid,	To identify the behaviour of dilute sulphuric acid and concentrated sulphuric acid. Understands the lab preparation of sulphuric acid.	Draw and label the diagrams for the laboratory preparation of sulphuric acid. Conduct experiments, record observation and draw conclusions. Solving past board papers	Concise chemistry part 2. Viraf dalal. Together with.
June	Organic chemistry Alkanes, Alkenes, Alkynes, Alcohols, Carboxylic acids.	Recalls the unique nature of carbon, the structure, isomerism homologous series of hydrocarbons, nomenclature, preparations, properties and uses of alkanes, alkenes, alkynes, ethanol and carboxylic acids.	Written work on nomenclature of organic compounds and drawing their structures; solving past board papers, class tests.	Concise chemistry part 2
July	Mole concept and stoichiometry.	Illustrates the lab preparation and industrial preparation of nitric acid and ammonia. Predict the behaviour of gases under changes of pressure and temperature. Interpret Gay Lussac's Law of combining volumes and Avogadro's law. To solve problems based on the relative molecular masses, number of moles, molecules and percentage composition. To deduce empirical and molecular formulae.	Work out numericals, Solving past board papers, class tests.	Concise chemistry part 2.
Aug	Ammonia. First summative assessment.	Illustrates the lab preparation and industrial preparation of ammonia. Recalls the various properties of ammonia.	Draw and label the diagrams for the lab preparation of ammonia, Chemical reaction & uses. Solving past board papers and class tests.	Concise chemistry part -2.
Sep	Electrolysis	Identifies the selective discharge of ions and their applications in electrolysis. Electrolysis of aqueous copper sulphate, molten Lead bromide and electroplating.	Draw and label the diagrams for the electrolytic cell. Discussion and written work, assignments and past papers, Class tests.	Concise chemistry part -2.

Second session- November 2018 – March 2019

Duration	Topics	Specific learning objectives	Activities	Resources
Oct	Metallurgy.	Comparative study of metals and non-metals. Memorise the activity series of metals, extraction of metals based on the activity series. Uses of metals and alloys.	Written work, assignments and class test.	Concise chemistry part -2.
Nov	Revision	Solving past board papers.		Concise chemistry part -2.
Dec	Revision			
Jan	Revision			
Feb	Revision			

Facilitator's name: Mrs. V Ashwani, Mrs Jiny Wilfred

Textbook: Concise chemistry part 2