



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

Syllabus planner for the Academic Year 2020

TERM: 1ST TERM



SUBJECT: CHEMISTRY

TEACHER'S NAME: Ms. RUMELI DASGUPTA

NO. OF WORKING DAYS: 84

NO. OF PERIODS AVAILABLE: 47


CLASS: 9

SECTION: A, B, C, D

| MONTH | NO. OF PERIODS | LESSONS | TOPICS COVERED | HOME-WORK | CLASS-WORK |
|----------|----------------|--|---|---|---|
| JANUARY | 12 | Ch.4.1 Atomic Structure | Discovery of electrons, cathode ray experiment, Rutherford's alpha particle experiment, Rutherford model of atom, limitations of Rutherford's model, discovery of neutrons, charge and mass of electrons, protons and neutrons, qualitative presentations of Bohr Rutherford's model, electronic orbits, isotope, isotone, isobar, nuclear forces | Question answer related to the topic covered. | Classroom discussions on the mentioned topic followed by conceptual question answer . |
| FEBRUARY | 16 | Ch 4.1 Atomic structure (contd...) Ch. 4.2 Mole concept | Electronic configurations upto Z=20, absorption/emission of energy during electronic transitions between orbits. Mole as unit of number, Avogadro's number and its importance, ,concept of gram atom and gram molecules | Question answer related to the topic covered. Numerical related to the topic | Classroom discussions on the mentioned topic followed by conceptual question answer . |
| MARCH | 15 | Ch. 4.2 Mole concept (contd..) Ch 4.3 Solution | Amu, molar volume of gas at N.T.P , use of molar mass molar volume and formula mass in chemical calculations and numerical based on this chapter. Definitions and example of true solution, colloidal and coarse suspension and diameter of particles of these solutions . | Question answer related to the topic covered Numerical related to the topic. | Classroom discussions on the mentioned topic followed by conceptual question answer . |
| APRIL | 04 | Revision lessons on Ch. 4.1 Atomic structure Ch 4.2 Mole concept Ch. 4.3 Solution | Conceptual question answer discussion. | Question answer related to the topic covered | Classroom discussions on the mentioned topic followed by conceptual question answer . Note:15th April 1st term EXAMINATION starts Syllabus :Ch 4.1,4.2, 4.3(TOPICS COVERED UPTO MARCH IN CLASS) |

Teachers are requested to prepare a LESSON PLAN for each Lesson to be taught. The Lesson plans are to be submitted along with the monthly planner.

Submitted on: 02.03.20

Signature of Teacher: 

Academic Co-ordinator: 

PRINCIPAL

VICE PRINCIPAL 



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SUBJECT: CHEMISTRY

TERM: 2nd TERM

TEACHER'S NAME: Ms. RUMELI DASGUPTA

NO. OF WORKING DAYS:- 70


NO. OF PERIODS AVAILABLE: 34

CLASS: 9

SECTION: A ,B, C, D

| MONTH | NO. OF PERIODS | LESSONS | TOPICS COVERED | HOMEWORK | CLASS WORK |
|--------|----------------|--|--|---|--|
| MAY | 07 | 4.3 Solution (contd...) | Dissolution of small ions and macromolecules, different colloidal solutions, solubility of solid and gases in liquid, saturate, unsaturated and supersaturated solutions, crystallization, concentration of solution and its unit, motion of the particles in solutions, numerical related to solubility, non aqueous solvent. | Question answer related to the topic covered Note: project work (method: nature study) assignment for physical science will be given for summer vacation. | Classroom discussions on the mentioned topic followed by conceptual question answer . Note: project work assignment for physical science will be given by 13th May and all students must be well intimated. |
| JUNE | 07 | 4.4 Acid , bases and salts | Arrhenius definition of acid and bases, indicators, industrial uses ,properties and reactions of NaOH,H ₂ SO ₄ ,HNO ₃ ,HCL,safe handling of acids and bases, qualitative introduction of pH, effect of pH | Question answer related to the topic covered | Classroom discussions on the mentioned topic followed by conceptual question answer . Note: last date for the submission of project will be 29th June |
| JULY | 14 | 4.4 Acid, base and salts (contd..) | Oxides and their properties, neutralization, antacids, normal, acidic and basic salts | Question answer related to the topic covered | Classroom discussions on the mentioned topic followed by conceptual question answer . Revision lessons on Ch. 4.3,4.4 |
| AUGUST | 06 | 4.5 separation of components of mixtures | Importance of separation of components and mixtures, distillation, fractional distillation | Question answer related to the topic covered | NOTE; 3RD August 2nd term EXAMINATION starts Syllabus:4.1,4.2,4.3,4.4 Classroom discussions on the mentioned topic followed by conceptual question answer. |

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Syllabus planner for the Academic Year 2020

TERM: 3rd TERM

NO. OF PERIODS AVAILABLE: 27



TEACHER'S NAME: Ms. RUMELI DASGUPTA

CLASS: 9


SECTION: A, B, C, D

SUBJECT: CHEMISTRY

NO. OF WORKING DAYS:- 58

| MONTH | NO. OF PERIODS | LESSONS | TOPICS COVERED | HOMEWORK | CLASS WORK |
|-----------|----------------|--|---|--|--|
| SEPTEMBER | 14 | 4.5 separation of components of mixtures (contd...) 4.6 water | Use of separatory funnel Physical properties of water, quality parameters of drinking water, purification method for drinking water, soft and hard water, removal of permanent and temporary hardness of water | Question answer related to the topic covered Note: project work (method: case study) assignment for physical science will be given for puja vacation | Classroom discussions on the mentioned topic followed by conceptual question answer. Note: project work assignment for physical science will be given by 30th September and all students must be well intimated (method –case study) |
| OCTOBER | 08 | 4.6 water (contd..) | Water pollution, arsenic and fluoride in ground water | Question answer related to the topic covered | Classroom discussions on the mentioned topic followed by conceptual question answer . |
| NOVEMBER | 05 | Revision of all topics from 1 st , 2 nd , 3 rd term | Revision of the related concepts. | Question answer related to the topic covered | Classroom discussions on the mentioned topic followed by conceptual question answer NOTE: 18TH November –3rd term EXAMINATION starts (syllabus: entire syllabus) Note: last date for the submission of project will be 3rd NOVEMBER |
| DECEMBER | | | | | |

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