



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION
Syllabus planning for the academic year 2019

Subject: Life Science

TERM: First

TEACHERS' NAME: Manjaree Guha, Debjani Chakraborty

No. of working days:- 86

No. of periods available: 22

CLASS: 10

SECTION: A,B,C,D

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	HOME WORK	CLASSWORK
JANUARY	10	Ch-1-Control and Coordination in Living Organisms.	Sensitivity and Response in Plants; Plant Movement , Plant Hormone	Objective Questions (MCQ, VSAQ,SAQ) to be given on topics- Plant movement and Plant Hormone	Notes to be given on Plant Movement, Functions of Plant Hormone Project(Topic –Nature Study) to be given to the students . Briefing of patterns and method of answering the questions (MCQ, VSAQ,SAQ,LAQ) will be intimated.
FEBRUARY	08	Ch-1-Control and Coordination in Living Organisms.	Animal Hormone, Human Endocrine glands and Hormones secreted from them. Neural Control and Coordination, Nervous pathway, Neurone-Structure and Plants, Types of Nerve and Nervous System	Objective Questions (MCQ, VSAQ,SAQ) to be given on topics-Animal Hormone, Nervous System, Neurone, Nerve and Nervous System. Diagram to be given on structure of Neurone	Notes to be given on Flow chart of Source , Function, Hyposecretion and Hypersecretion of Different Animal Hormones. Discussion on topics- Components of Nervous System , Types of Neurone , Types of Nerve and Nervous System with notes. Last date of Project Submission for 1 st Term Examination- 25.02.2019
MARCH	04	Ch-1-Control and Coordination in Living Organisms.	Different Parts of Brain, Reflex Action and Reflex Arc, Eye as Sense organ <u>Syllabus for 1st Term Examination : Chapter -1 (Till Eye as Sense Organ)</u>	Diagrams to be given on Reflex Arc and Structure of Eye	Notes to be given on Different parts of Brain- Types of Reflex Action, Reflex Arc , Different parts of Eye, defects of Eye.
APRIL	First Term Examination Begins on 09.04.19				

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

Name of the teachers : Manjaree Guha , Debjani Chakraborty

Signature of Teachers:
Manjaree Guha 28.1.19
Debjani Chakraborty 28.01.19

PRINCIPAL

Submitted on: 28th January, 2019.

Academic Co-ordinator:.....

7/1/2019
VIC PRINCIPAL



FOR GOD AND COUNTRY

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MAY	05	Ch-1-Control and Coordination in Living Organisms.	Types of animal locomotion, Role of movable Joints and skeletal muscles	Objective Questions (MCQ, VSAQ, SAQ) to be given on different types of animal locomotion , types of joints, types of movement. (Project to be done by the students as holiday homework)	Notes to be given on locomotion in Amoeba , Paramoecium, Euglena, Fish, Bird , Human, Types of joint and types of movement. <u>Project (Topic- Model making) to be given to the students.</u> Briefing of patterns and Method of answering the questions(MCQ, VSAQ, SAQ, LAQ) will be intimated.
JUNE	09	Ch-2-Continuity of life	Inter relationship among Chromosome, DNA and gene, Types and parts of chromosome, Types and significance of cell division, Cell cycle, Comparison between Mitosis and Meiosis.	Short questions to be given on nucleosome model, Diagrams to be given on Structure of Chromosome, Phase of Cell cycle and stages of Mitosis.	Discussion on Concept of nucleosome Model, Notes to be given on Types and Structure of Chromosome, Chemical Composition of Chromosomes, Phases of Cell Cycle , Stages of Mitosis and Meiosis Last date of Project Submission for Pre- Test Examination- 12.06.2019
JULY	10 Pre-Test Examination begins on 25.07.2018	Ch-2-Continuity of life And Heredity and some common genetic diseases.	Reproduction-Concept and Modes of Vegetative, Asexual and Sexual Reproductive , Growth and Development , Phases of Human Development Syllabus for Pre- Test Examination : Chapter1,2,3 (till Pg- 84 till before 'Mendel's work on Pea Plant)	Objective Questions (MCQ, VSAQ, SAQ) to be given on Asexual Reproduction , Vegetative Reproductive , Pollination , Human Life Span Development , Terms associated with Heredity , Reasons for selecting Pea Plant as Mendel's experimental material. Diagrams to be given on Parts of flower.	Notes to be given on Types of Asexual Reproduction, Vegetative Reproduction, Alternation of generation, Parts of a flower, Pollination- types and agents, Phases of growth, Human Life span Development, Mendel's work on pea plant.
AUGUST	05	Ch-3-Heredity and some common Genetic Diseases.	Mendel's Experiment, Mendel's laws, Some common Genetic Diseases.	Objective Questions (MCQ, VSAQ, SAQ) to be given on Seven pairs of contrasting characters. Long questions to be given on flow chart of monohybrid Cross, Dihybrid cross, Incomplete Dominance.	.Discussion on terms associated with Monohybrid cross, Dihybrid cross, Laws of Mendel, Incomplete dominance, Sex determination in man, Common genetic diseases. Project (Topic – Creative Writing) to be given to the students . Briefing of patterns and Method of answering the questions (MCQ, VSAQ, SAQ, LAQ) will be intimated.

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Name of the teachers : Manjaree Guha, Debjani Chakraborty

Signature of Teachers: *Manjaree Guha* 28.1.19, *Debjani Chakraborty* 28.01.19Submitted on: 28th January, 2019.Academic Co-ordinator: *[Signature]*

PRINCIPAL

VICE PRINCIPAL *[Signature]* 2/19



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SEPTEMBER	12	Ch-4 –Evolution and Adaptation. Ch-5- Environment:Its Resources and their Conservation	Evolution- Concept and evidences, Adaptation behaviour, Examples of adaptation. Nitrogen Cycle, Environment Pollution.	Objective questions to be given on Theories(Lamarckism and Darwinism) and Evidences of Evolution, Short questions to be given on different types of adaptation. Objective questions (MCQ,VSAQ,SAQ) to be given on Nitrogen Cycle, Causes and Effects of environmental pollution.	Discussion on origin of life , Theories (Lamarckism, Darwinism and Evidences of Evolution,Morphological, Physiological behavioural Adaptation Discussion on Nitrogen Cycle, Different types of pollution,- Its causes and effects. <u>Last date of project submission for selection Test Examination 20.09.2019.</u>
OCTOBER	06	Ch- 5- Environment: Its Resources and their Conservation	Environment and Human population, Biodiversity and conservation Syllabus for Selection Test Examinatin: Chapters 1,2,3,4,5. Revision of all chapters- (1,2,3,4,,5) done throughout the academic year,	Objective questions(MCQ, VSAQ, SAQ,LAQ) to be given on Environment and human health, Importance of Biodiversity , Biodiversity hotspots, Loss of biodiversity, Types of Conservation, Conservation of some major Animals.	Discussion on over – increasing population , Environment and Human health, Importance of Biodiversity , Biodiversity hotspots , Loss of biodiversity , Types of Conservation, Conservation of some major animals.
NOVEMBER	Selection Test Examination begins on 04.11.2019.				
DECEMBER					

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Name of the teachers : Manjaree Guha, Debjani Chakraborty

Signature of Teachers: *Manjaree Guha*, *Debjani Chakraborty*
28.1.19, 28.01.19

PRINCIPAL

Submitted on: 28th January, 2019

Academic Co-ordinator: *[Signature]*

VICE PRINCIPAL *[Signature]* 11/2/19