



# ST. LAWRENCE HIGH SCHOOL

JESUIT CHRISTIAN MINORITY INSTITUTION  
Syllabus planner for the academic year 2020-2021



Subject: BIOLOGICAL SCIENCES  
No. of working days: 20

TERM: First Term  
No. of periods available: 03

CLASS: 11

TEACHER'S NAME: MS.MANJAREE GUHA  
SECTION: A1, A2

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	HOMEWORK	CLASS WORK
JANUARY					
FEBRUARY					
MARCH					
APRIL	03	CHAPTER 12: MINERAL NUTRITION	MACRO- AND MICRONUTRIENTS, NITROGEN METABOLISM	SHORT ANSWER TYPE QUESTIONS TO BE GIVEN ON NITROGEN METABOLISM	EXPLANATION, DISCUSSION AND NOTES TO BE GIVEN ON RELEVANT TOPIC.

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.

Signature of Teachers: *Manjaree Guha* 27/1/20  
Submitted on: 27<sup>th</sup> January, 2020.

Academic Co-ordinator: *J. Sheela* 28/1/2020

PRINCIPAL

VICE PRINCIPAL

*Christy*  
28/2/2020



FOR GOD AND COUNTRY

# ST. LAWRENCE HIGH SCHOOL

JESUIT CHRISTIAN MINORITY INSTITUTION  
Syllabus planner for the academic year 2020-2021

Subject: BIOLOGICAL SCIENCES

TERM: FIRST TERM+ PRE-ANNUAL

TEACHER'S NAME: MS.MANJAREE GUHA

No. of working days: 70

No. of periods available: 49

CLASS: 11

SECTION: A1, A2

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	HOMEWORK	CLASS WORK
MAY	08	CHAPTER 13: PHOTOSYNTHESIS CHAPTER 11: TRANSPORT IN PLANTS	LIGHT REACTION,CALVIN CYCLE,C4 AND C2 CYCLE DIFFUSION, ACTIVE TRANSPORT,WATER POTENTIAL	DIAGRAMS ON LIGHT REACTION CALVIN CYCLE,C4 AND C2 CYCLE OBJECTIVE QUESTIONS TO BE GIVEN ON ACTIVE TRANSPORT, PASSIVE TRANSPORT, PHLOEM LOADING AND UNLOADING.	SHORT QUESTIONS AND ANSWERS RELATED TO THE TOPIC TAUGHT. NOTES ON ASCENT OF SAP,MASS FLOW HYPOTHESIS SHORT QUESTIONS AND ANSWERS RELATED TO THE TOPIC TAUGHT.
JUNE	11	CHAPTER 14:RESPIRATION IN PLANTS CHAPTER 15: PLANT GROWTH AND DEVELOPMENT CHAPTER 16:DIGESTION AND ABSORPTION	AEROBIC RESPIRATION AND ANAEROBIC RESPIRATION, R.Q. PHASES AND CONDITIONS OF GROWTH,GROWTH REGULATORS,PHOTOPERIODISM,VERNALIZATION DIGESTIVE SYSTEM,DISORDERS OF DIGESTIVE SYSTEM	SCHEMATIC REPRESENTATIONS OF GLYCOLYSIS, KREB'S CYCLE OBJECTIVE QUESTIONS TO BE GIVEN ON PLANT HORMONES. QUESTIONS TO BE GIVEN ON DIGESTION OF NUTRIENTS	NOTES ON PHASES AEROBIC RESPIRATION SHORT QUESTIONS AND ANSWERS RELATED TO THE TOPIC TAUGHT SHORT QUESTIONS AND ANSWERS RELATED TO THE TOPIC TAUGHT
JULY	20	CHAPTER 17:BREATHING CHAPTER 18:CIRCULATION CHAPTER 19:EXCRETORY PRODUCTS DIVISION	TRANSPORT OF GASES,DISORDER OF RESPIRATORY SYSTEM BLOOD GROUPS,CARDIAC CYCLE URINE FORMATION,MICTURITION,DISORDER OF EXCRETORY SYSTEM	QUESTIONS TO BE GIVEN ON DIFFERENT TERMS RELATED TO RESPIRATION QUESTIONS TO BE GIVEN ON FLOWCHART OF BLOOD CIRCULATION,BLOOD COAGULATION QUESTIONS TO BE GIVEN ON FUNCTIONS OF DIFFERENT COMPONENTS OF NEPHRON	NOTES ON EXCHANGE AND TRANSPORT OF GASES NOTES ON BLOOD COAGULATION THROUGH HUMAN HEART EXPLANATION, DISCUSSION AND NOTES TO BE GIVEN ON RELEVANT TOPIC.
AUGUST	10 <u>FIRST TERM EXAMINATION BEGINS ON 03.08.20</u>	CHAPTER 20:LOCOMOTION AND MOVEMENT CHAPTER 21: NEURAL CONTROL AND CO-ORDINATION CHAPTER 22: ENDOCRINE SYSTEM <u>SYLLABUS FOR FIRST TERM EXAM – CHAPTER 11, 12, 13,14, 15,16,17,18,19,20,21,22</u>	MUSCLES, JOINTS,DISORDERS OF SKELETAL SYSTEM HUMAN NERVOUS SYSTEM,GENERATION OF NERVE IMPULSE,SENSORY RECEPTION SITE OF SECRETION AND ROLE OF PITUITARY HORMONES, MECHANISM OF HORMONE ACTION	QUESTIONS TO BE GIVEN TO STRUCTURE OF SKELETAL MUSCLE, SKELETAL SYSTEM DIAGRAMS OF EYE, EAR QUESTIONS TO BE GIVEN ON PITUITARY HORMONES,	NOTES ON TYPES OF MUSCLE AND JOINTS,SKELETAL SYSTEM NOTES ON NEURAL SYSTEM, CNS, EYE, EAR NOTES ON SITE OF SECRETION AND ROLE OF PITUITARY HORMONES

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.

Signature of Teacher: *Manjaree Guha*  
Submitted on: 27<sup>th</sup> January, 2020. *27/1/20*Academic Co-ordinator: *J. Shupe* *28/1/2020*

PRINCIPAL

VICE PRINCIPAL *28/1/2020*



# ST. LAWRENCE HIGH SCHOOL



JESUIT CHRISTIAN MINORITY INSTITUTION  
Syllabus planner for the academic year 2020-2021  
TERM: PRE-ANNUAL

Subject: BIOLOGICAL SCIENCES

TEACHER'S NAME: MS.MANJAREE GUHA

No. of working days: 76

No. of periods available: 37

CLASS: 11

SECTION: A1, A2

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	HOMEWORK	CLASS WORK
SEPTEMBER	12	CHAPTER 8:CELL:THE UNIT OF LIFE CHAPTER 9: BIOMOLECULES CHAPTER 10: CELL CYCLE AND CELL DIVISION CHAPTER 5:MORPHOLOGY OF FLOWERING PLANTS	CELL THEORY AND CELL ORGANELLES PHASES OF CELL CYCLE, DETAILS OF STAGES OF MITOSIS AND MEIOSIS  ROOT, STEM, LEAVES, FLOWERS, FRUITS, FLORAL FORMULA	DIAGRAMS ON DIFFERENT CELL ORGANELES SHORT QUESTIONS AND ANSWERS AS PER H.S COUNCIL GUIDELINES DIAGRAMS ON STAGES OF MITOSIS, MEIOSIS  DIAGRAMS ON AESTIVATION,PLACENTATION	EXPLANATION, DISCUSSION AND NOTES TO BE GIVEN ON RELEVANT TOPIC. NOTES ON COMPARISON OF MITOSIS AND MEIOSIS AND CYTOKINESIS IN PLANTS AND ANIMALS  EXPLANATION, DISCUSSION AND NOTES TO BE GIVEN ON RELEVANT TOPIC. <u>LAST DATE OF PROJECT SUBMISSION :16.09.2020</u>
OCTOBER	7	CHAPTER 6: ANATOMY OF FLOWERING PLANTS CHAPTER 7: STRUCTURAL ORGANISATION IN ANIMALS CHAPTER 1: THE LIVING WORLD	PLANT TISSUE, STRUCTURAL ORGANIZATION OF PLANT TISSUE IN DIFFERENT PLANT PARTS. TYPES OF ANIMAL TISSUES,MORPHOLOGY AND ANATOMY OF COCKROACH DIVERSITY IN LIVING WORLD,TAXONOMY AND TAXONOMICAL AIDS	COMPARISON OF ANATOMY OF DICOT AND MONOCOT PLANTS. SHORT QUESTIONS AND ANSWERS AS PER H.S COUNCIL GUIDELINES RELATED ANSWERS AS PER H.S COUNCIL GUIDELINES	NOTES ON TYPES OF PLANT TISSUE NOTES ON TYPES OF ANIMAL TISSUE AND MORPHOLOGY AND ANATOMY OF COCKROACH DISCUSSION ON BINOMIAL NOMENCLATURE, LINNEAN HIERARCHY
NOVEMBER	14	CHAPTER 2: BIOLOGICAL CLASSIFICATION CHAPTER 3: PLANT KINGDOM CHAPTER 4:ANIMAL KINGDOM	FIVE KINGDOM CLASSIFICATION OF WHITTAKER, 1969 ALGAE, FUNGI, BRYOPHYTE, PTERIDOPHYTE, GYMNOSPERM BASIS OF CLASSIFICATION,LEVELS OF ORGANISATION, ANIMAL CLASSIFICATION (INVERTEBRATES AND VERTEBRATES)	OBJECTIVE QUESTIONS TO BE GIVEN ON DIFFERENT KINGDOMS OF WHITTAKER'S CLASSIFICATION. SHORT QUESTIONS TO BE GIVEN RELATED TO THE TOPICS TAUGHT.  SHORT QUESTIONS TO BE GIVEN ON COMPARISON OF DIFFERENT ANIMAL GROUPS	NOTES ON FIVE KINGDOM CLASSIFICATION OF WHITTAKER NOTES ON COMPARISON OF DIFFERENT PLANT GROUPS NOTES ON COMPARISON OF DIFFERENT ANIMAL GROUPS
DECEMBER	04	CHAPTER 4:ANIMAL KINGDOM (CONTINUED)	PHYLUM-CHORDATA COMPLETED. <u>SYLLABUS COMPLETED(ENTIRE)</u> <u>REVISION STARTS.</u>	SHORT QUESTIONS TO BE GIVEN ON COMPARISON OF DIFFERENT CHORDATES.	NOTES ON COMPARISON OF DIFFERENT ANIMAL GROUPS(CHORDATA)

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.

Signature of Teachers: *Manjaree Guha* 27/1/20  
Submitted on: 27<sup>th</sup> January, 2020.

Academic Co-ordinator: *J. Sheya* 28/1/2020

PRINCIPAL

VICE PRINCIPAL

*Manjaree Guha*  
28/2/2020



# ST. LAWRENCE HIGH SCHOOL

JESUIT CHRISTIAN MINORITY INSTITUTION  
Syllabus planner for the academic year 2020-2021  
TERM: PRE-ANNUAL EXAMINATION

Subject: BIOLOGICAL SCIENCES

TEACHER'S NAME: MS. MANJAREE GUHA

No. of working days: 20

No. of periods available: 10

CLASS: 11

SECTION: A1, A2

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	HOMEWORK	CLASS WORK
JANUARY	8	Revision of the syllabus	Revision	Revision	QUESTIONS AND ANSWERS FROM ALL THE CHAPTERS REVISED.

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.

Signature of Teacher: *Manjaree Guha*  
Submitted on: 27<sup>th</sup> January, 2020. *27/1/20*

Academic Co-ordinator: *J. Sheya 28/1/2020*

PRINCIPAL

VICE PRINCIPAL

*[Signature]*  
*28/1/2020*