

Grade Level	Course Name	Syllabus Name	Standard Description	Standard Name	Standard Code	Description
Grade 12 (LS)	Biology	Unit 1	Reproduction and Genetics	Basic Mechanisms of sexual Reproduction	CH1	Document1, male and female reproductive systems Document2, diploid and haploid cells. Document3, Meiosis. Document4, spermatogenesis. Document5, oogenesis. Document6, fertilization Chapter1, exercises + Test
Grade 12 (LS)	Biology	Unit 1	Reproduction and Genetics	Transmission of genes and Genetic Recombination	CH2	Document1, hereditary traits and genes Document2, transmission of allelic genes Document3, Interchromosomal recombination Document4, Intrachromosomal recombination exercises, worksheet, Test

Grade 12 (LS)	Biology	Unit 1	Reproduction and Genetics	Genetic Variation and polymorphism	CH3	Document 1, mutations and the environment Document2, mutations and multiple alleles Document3, polymorphic genes in a population Document4, detection of genetic mutations Document5, genetic identity of organisms Exercises, test
Grade 12 (LS)	Biology	Unit 1	Reproduction and Genetics	Human Genetics	CH5	Document1, inheritance of genetic traits Document2, autosomal diseases Document3, sex-linked diseases Document4, chromosomal mutations + exercises Document5, prenatal diagnosis Exercises + Test

Grade 12 (LS)	Biology	Unit 2	Immunology	Role and components of the immune system	CH6	<p>Document1, HLA; a major self-marker Document2, blood groups, another self-marker Document3, the non-self Document4, cells of the immune system Document5, lymphoid organs Document6, antigen recognition by B lymphocytes Document7, antigen recognition by T lymphocytes Exercises, worksheet, Test</p>
Grade 12 (LS)	Biology	Unit 2	Immunology	The immune response	CH7	<p>Document 1, non-specific immune response Document2, the specific immune response Document3, induction of the specific immune response Document4, role of TH cells in the specific immune response Document 5, specific</p>

						<p>humoral immune response</p> <p>Document 6, specific cell mediated immune response</p> <p>Document7, immunological memory</p> <p>Document8, diagnostic applications of antibody property</p> <p>Exercises, Test</p>
Grade 12 (LS)	Biology	Unit 2	Immunology	Disorders of the immune system	CH8	<p>Document 1, immunodeficiency</p> <p>Document3, Autoimmune diseases</p>
Grade 12 (LS)	Biology	Unit 3	Neurophysiology	Function of neurons	CH9	<p>Document 1, resting potential</p> <p>Document2, action potential</p> <p>Document3, nerve impulse and action potential</p> <p>Document4, sensory receptor and nerve impulse</p> <p>Document5, synapses, structure and function</p> <p>Document6, integrating properties of nerve centers</p> <p>Exercises, worksheets, test</p>

Grade 12 (LS)	Biology	Unit 3	Neurophysiology	Myotatic reflex	CH10	Document1, maintaining posture Document2, Anatomy of the reflex action Document3, reflex control Exercises, worksheet, test
Grade 12 (LS)	Biology	Unit 3	Neurophysiology	Neurotransmitters and medical applications	CH12	Document1, Neurotransmitters and membrane channels Document2, neurotransmitters and the pain circuit Document3, disorders of the nervous system Document4, action of drugs on synapses Exercises+ test
Grade 12 (LS)	Biology	Unit 4	Systems of Regulation	Regulation of the female sexual hormones	CH15	Document1, the sexual cycle Document2, cyclic evolution of the ovarian hormones. Document3, hypothalamo-pituitary axis and ovarian secretions Document4, Ovarian feedback control on the hypothalamo-pituitary axis . Exercises, worksheet, test
Grade 12 (LS)	Biology	Unit 4	Systems of Regulation	Birth control	CH16	Document1, contraceptive methods Document2, contragestive methods Document3, medically assisted procreation Exercises, worksheet, test