



High School Science Course Description (Academic Year 2020-2021)

The Physical Science curriculum has been aligned to **National Science Education Standards** (NSES). It is designed to continue student investigations of the physical sciences and provide students the necessary skills to have a richer knowledge base in physical science. Students investigate physical science concepts through experience in laboratories and field work using the processes of inquiry.

In grade 10, Biology course represents verities of subjects such as biochemistry of life, cells structure and processes, genetics and molecular bases, plants structure and function, introduction to photosynthesis and cellular respiration, human body systems structures and functions. The complexity and organization of organisms.

In grade 11, the goal of the Chemistry course is to lead students towards a greater understanding of the chemical world around them through inquiry, analysis, experimentation, and mathematical manipulations. An emphasis will be placed on hands on learning, use of technology, and application to real-world situations.

In grade 12 Science Electives, Physics course includes principles and fundamental of physics which prepares senior to college level such as mechanics, thermodynamics, vibrations and wave Phenomena, optics, electromagnetism, and atomic physics. The course will build models to describe the universe based on a small number of fundamental physics principles. Environmental Science studies the interaction between living things and the environment, especially the impact that humans have on these components. Students will study the concepts and methods used to determine the complicated interactions present in nature, and identify several important environmental problems and how they affects humans and other organisms.