

HOLY TRINITY CATHOLIC SECONDARY SCHOOL

COURSE OUTLINE



Name of Course/Course Code: SNC2D

Course Prerequisite: Grade 9 Science, Academic or Applied

Course Description:

This course enables students to develop a deeper understanding of concepts in biology, chemistry, earth, and space science, and physics; to develop further their skills in scientific inquiry; and to understand the interrelationships among science, technology, and the environment. Students conduct investigations and understand scientific theories related to ecology and the maintenance of ecosystems; chemical reactions, with particular attention to acid-base reactions; factors that influence weather systems; and motion.

Catholic Graduate Expectations:

The study of science helps students to learn and to be reflective, critical, and creative thinkers, as well as discerning believers who understand the theories of science and can apply them to the world around them yet make appropriate decisions in light of Gospel values and Church teachings for the common good. Through the study of the techniques of science, particularly experimentation, students learn to be collaborative contributors to an interdependent team, respecting the rights, responsibilities, and contributions of others. Overall through this course, students become aware of the sacred dimension of the physical world in all its aspects and of their role as stewards of God's creation. Students should recognize that the physical environment is a vehicle of God's presence in the world and a channel for Grace in the world. In order to support this statement the themes of stewardship and sound moral decision making have been woven into the fabric of each unit in this course. Through reflection and their research for the culminating activity students apply the knowledge gained in the course about interdependent systems for the development of a just society.

Units of Study

Unit 1	Chemistry: Chemical Processes
Unit 2	Biology: Tissues, Organs, and Systems of Living Things
Unit 3	Physics: Light and Geometric Optics
Unit 4	Earth and Space Science: Climate Change

Evaluation

70%	30%
Knowledge/Understanding	Culminating Task (10%) (<i>indicate percentage</i>)
Thinking/Inquiry	
Communication	Exam (20%) (<i>indicate percentage</i>)
Application	

Course Resources Required:

The primary text for this course is *Nelson: Science Perspectives 10*

For a detailed course description of this course, please visit
<https://www.edu.gov.on.ca/eng/curriculum/secondary>