

**ST. JOSEPH CATHOLIC SECONDARY SCHOOL
COURSE OUTLINE**



Name of Course/Course Code: Grade 9 Academic Science, SNC 1D

Course Prerequisite: none

Course Description:

This course enables students to develop their understanding of basic concepts in biology, chemistry, earth and space science, and physics, and to relate science to technology, society, and the environment. Throughout the course, students will develop their skills in the processes of scientific investigation. Students will acquire an understanding of scientific theories and conduct investigations related to sustainable ecosystems; atomic and molecular structures and the properties of elements and compounds; the study of the universe and its properties and components; and the principles of electricity.

Catholic Graduate Expectations:

The study of science helps students to learn to be reflective, critical, and creative thinkers, as well as discerning believers, who can apply their knowledge to the world around them. They can then make appropriate decisions in light of Gospel values and Church teachings. 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. Through career exploration, students think critically about the meaning and purpose of work, find meaning, dignity, and fulfillment, and contribute to the common good. Overall, through the course, students become aware of the spiritual as well as the physical dimension of the world and of their roles as stewards of God's creation.

Units of Study

Unit 1	Chemistry: Atoms , Elements and Compounds
Unit 2	Biology: Sustainable Ecosystems
Unit 3	Physics: The Characteristics of Electricity
Unit 4	Earth & Space Science: The Study of The Universe

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Evaluation

70%	30%
Knowledge/Understanding	Culminating Task and Exam
Thinking/Inquiry	
Communication	
Application	

Course Resources Required:

On Science 9, McGraw-Hill Ryerson

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