

OUR LADY OF LOURDES Catholic high school

Course Title: Grade 9 Science, Academic (SNC 1D)

Credit Value: 1

Course Description

This course enables students to develop their understanding of basic concepts in biology, chemistry, earth and space science, and physics, and to apply their knowledge of science to everyday situations. They are also given opportunities to develop practical skills related to scientific investigation. Students will plan and conduct investigations into practical problems and issues related to the impact of human activity on ecosystems; the structure and properties of elements and compounds; space exploration and the components of the universe; and static and current electricity.

How This Course Supports the Ontario Catholic School Graduate Expectations

The study of the knowledge 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 will learn to be collaborative contributors to an interdependent team, respecting the rights, responsibilities and contributions of others. Through career exploration, the students will think critically about the meaning and purpose of work, finding meaning, dignity and fulfillment and contribute to the common good. Overall, through the course, students will become aware of the sacramental dimension of the physical world in all its aspects and of their roles as stewards of God's creation.

Ministry Web site

The overall course expectations can be found on the ministry website:

<http://www.edu.gov.on.ca/eng/curriculum/secondary/science.html>

Unit Titles and Time

Unit 1	Chemistry: Atoms, Elements, and Compounds	27.5 hours
Unit 2	Physics: The Characteristics of Electricity	27.5 hours
Unit 3	Biology: Sustainable Ecosystems	27.5 hours
Unit 4	Earth and Space Science: The Study of the Universe	27.5 hours

Assessment and Evaluation

A variety of assessment strategies will be utilized throughout the course.

Term Work (70%)		Culminating Activity (30%)
Knowledge/Understanding	30%	This 30% is made up of: Compulsory Final Exam and Culminating Unit Tasks
Thinking/Inquiry/Problem Solving	35%	
Communication	10%	
Application	25%	

Cheating and Plagiarism

Please see information regarding this topic in the Catholic Student Planners.

General Course Information

Learning Skills: regular attendance, working independently, teamwork, organization, work habits, initiative, risk-taking, time-management, perseverance, questioning, curiosity and a love of learning are all essential to success in this course.

A **scientific calculator** is required.

Parent/Guardian/Student Signature

My signature below indicates that I have read and understood the course overview.

Student Signature: _____

Date: _____

Parent/Guardian Signature: _____

Date: _____

Parent/Guardian Contact

Email: Email has become an efficient means of communication between parents and teacher. My school email address can be accessed through my website, please feel free to send me an email at anytime. If you would like me to contact you this way, please supply a parent/guardian email address that is checked on a regular basis. Thank you.

Parent / Guardian name: _____

Parent / Guardian email : _____

Students: Please keep this sheet in your notebook. Good luck in this course!