

SOUTH CARLETON HIGH SCHOOL
Ottawa-Carleton District School Board
COURSE OUTLINE

SNC2P - GRADE 10 Applied Science

Credit Value: 1 credit

Hours: 110

Prerequisite: SNC1P/SNC1D/SNC1DF

Expectations

This course enables students to develop a deeper understanding of concepts in biology, chemistry, earth and space science, and physics, and to apply their knowledge of science in real-world situations. Students are given opportunities to develop further practical skills in scientific investigation. Students will plan and conduct investigations into everyday problems and issues related to human cells and body systems; chemical reaction; factors affecting climate change; and the interaction of light and matter.

Big Ideas

Unit Title	Science Focus For Learning Expectations
Biology: Tissues, Organs and Systems of Living Things	All animals are made of specialized cells, tissues, and organs that are organized into systems. Although technology and chemicals can be used to improve the health, they can also constitute a health hazard.
Chemistry: Chemical Reactions and Their Practical Applications	Chemicals react with each other in predictable ways. Chemicals reactions are a necessary component of chemical products and processes used in the home and workplace.
Earth and Space Science: Earth's Dynamic Climate	Global climate change is influenced by both natural and human factors. Climate change affects living things and natural systems in a variety of ways.
Physics: Light and Applications of Optics	Wide ranges of technologies utilize the properties of light and colour. The behaviour of light depends on the materials with which it interacts. Light is a form of energy, produced from a variety of sources, and can be transformed into other useful forms of energy.

**NOTES: a. Specific learning expectations are available for each unit of study. b. The sequence of topics may not be exactly as listed above.*

Accommodations for Exceptional Students

The Science department makes every effort to accommodate the identified needs of exceptional (IPRC'd) students and will attempt to differentiate curriculum delivery methods, student modes of expression, and assessment methods as recommended by the student's individual education plan (IEP).

Career Planning

The Science department makes every effort to ensure that students are aware of career opportunities related to various fields of science under study, and describe the contributions of scientists, including Canadians, to those fields.

Technology and Textbooks

The school will supply all laboratory resources and materials.

Textbook: Science Connections 10 (Nelson) replacement cost = \$89.00

Evaluation

Term Evaluations (70%)	Summative Evaluation (30%)
Students will be evaluated according to the overall expectations of the Ontario curriculum. Assessment tools include both summative and formative tasks including but not limited to; tests/quizzes, assignments, projects, lab reports, skill based performance tasks and rich assessment tasks	<i>The exam portion of the summative will occur during the exam period in Jan/Jun and will evaluate the whole semester's work. All students must be present unless a medical certificate is provided.</i> <i>Project or assignment summative evaluation will be completed before the exam period begins.</i>

More information on South Carleton High School's policy on Assessment and Evaluation, on Academic Integrity, on punctuality, absenteeism and examinations can be accessed on our school website.