SCIENCE AT WOBURN: GRADE NINE ACADEMIC AND APPLIED COURSES
2009-2010

The overall aim of the secondary science program is to ensure scientific literacy for every secondary school graduate. This aim can be achieved by meeting three overall goals for every student:

- to understand the basic concepts of science
- to develop the skills, strategies, and habits of mind required for scientific enquiry
- to relate science to technology, society, and the environment

Grade 9 Applied Science

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 the properties of elements and compounds; space exploration and the components of the universe; and static and current electricity.

Grade 9 Academic Science

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. Through 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.

For both Applied and Academic Science courses

Term Mark: a percentage based on the following categories:

Knowledge/understanding	25%
Inquiry	25%
Communication	25%
Connections	25%

Final Mark	Cumulative year's work	70%
	final evaluation	30%

The final evaluation will consist of:

Knowledge/Understanding test	15%
Inquiry activity	10%
Communication/Connections assignment	5%

Formative assessment and summative evaluation will involve quizzes, tests (written and practical skills), group and individual major projects, assignments, observation and interaction with the teacher and other students.

Textbook: Science 9 Nelson ISBN 0-17-612032-7

Course Fee: none. However, students are encouraged to purchase their own safety goggles ($3.00) from their teacher; these goggles may be used for all science courses.

SCIENCE AT WOBURN: GRADE NINE ACADEMIC (GIFTED) COURSE
2009-2010

The overall aim of the secondary science program is to ensure scientific literacy for every secondary school graduate. This aim can be achieved by meeting three overall goals for every student:

- to understand the basic concepts of science
- to develop the skills, strategies, and habits of mind required for scientific enquiry
- to relate science to technology, society, and the environment

Grade 9 Academic (Gifted) Science

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. Through 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. The students are challenged to develop and apply scientific relationships and to explore further in-depth studies as chosen by the teacher to enhance and provide appropriate extensions to the course content.

Term Mark	a percentage based on the following categories:	
	Knowledge /Understanding	25%
	Inquiry	25%
	Communication	25%
	Connections	25%
Final Mark	Cumulative year's work	70%
	Final evaluation	30%

The Final evaluation will consist of:	Knowledge/Understanding test	15%
	Inquiry activity	10%
	Communication/Connections assignment	5%

Formative assessment and summative evaluation will involve quizzes, tests (written and practical skills), group and individual major projects, assignments, observation and interaction with the teacher and other students.

Textbook: Science 9 Nelson ISBN 0-17-612032-7

Course Fee: none. However, students are encouraged to purchase their own safety goggles ($3.00) from their teacher; these goggles may be used for all science courses.