



Westside Secondary School

Orangeville, Ontario, Canada



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www.ugdsb.on.ca/westside

Course: SCN 4E		Phone Extension	E-mail Address
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Course Description:

This course provides students with the fundamental knowledge of and skills relating to environmental science. This course provides students with fundamental science knowledge and workplace skills needed to prepare them for success beyond secondary school. Students will explore hazards in the workplace, chemicals in consumer products, disease and its prevention, electricity at home and at work, and nutritional science. Emphasis is placed on current topics in science and relevant, practical activities that develop students' literacy and mathematical literacy skills and enhance their scientific literacy.

Big Ideas: The curriculum in each unit targets "Big Ideas" that are laid out by Ontario's Ministry of Education and adapted by Westside teachers. The following chart outlines the Big Ideas being explored and evaluated in each unit of this course. For more information on the overall course expectations, visit http://www.edu.gov.on.ca/eng/curriculum/secondary/2009science11_12.pdf.

Unit of Study	Big Ideas
Hazards in the Workplace	<ul style="list-style-type: none"> Knowledge and understanding of science enable people to identify, explain, and minimize hazardous situations in the workplace.
Chemicals in Consumer Products	<ul style="list-style-type: none"> Physical and chemical properties of chemicals determine how they can be used in consumer and industrial products. Incorrect handling and disposal of chemicals can lead to unsafe conditions in the home and the workplace and can harm the environment.
Disease and its Prevention	<ul style="list-style-type: none"> The spread of communicable diseases can be reduced through personal choices and the use of appropriate technologies. Methods used to control the spread of diseases can have both positive and negative effects.
Electricity at Home and Work	<ul style="list-style-type: none"> Electrical equipment can pose a safety hazard in the home and workplace if it is not used correctly. Rapid advances in electronics and consumers' desire for the latest electronics technology have resulted in serious waste disposal problems.
Nutritional Science	<ul style="list-style-type: none"> The nutrients and other substances found in food products have effects on human health and well-being. Knowledge of the role of nutrients and other substances found in food products enables people to make healthy lifestyle choices.

Instructional Strategies:

Westside teachers use a variety of instructional strategies to help students develop and improve skills in the following areas: character, citizenship, communication, critical thinking and problem solving, collaboration and teamwork, and creativity and imagination.

Achievement Categories: Student learning is assessed and evaluated with respect to the following four interrelated categories of knowledge and skills.

**Knowledge and Understanding
Thinking
Communication
Application**

Assessment and Evaluation: Formative assessments for and as learning are used to improve student success by providing an opportunity to demonstrate an understanding of course expectations prior to the summative evaluation of learning. Summative evaluations are where students demonstrate their understanding of Big Ideas and key expectations. Summative tasks may include labs, research assignments, presentations, interviews, projects and unit tests. Failure to complete a summative evaluation may result in the credit not being granted because the expectations of the course have not been met.

Term Work Evaluation: 70%

Hazards in the Workplace Unit: Test and Inquiry Activity
Chemicals in Consumer Products Unit: Test and Lab Activity
Disease and its Prevention Unit: Test and Inquiry Activity
Electricity at Home and Work Unit: Test and Lab Activity
Nutritional Science Unit: Test and Inquiry Activity

Final Evaluation(s): 30%

Culminating (20%)
Interview (10%)

Late Work

- Students are expected to complete all assigned work and submit it by the teacher's established due date. Every attempt will be made to encourage students to complete all assigned work on time so their grade represents their actual achievement. For late and missed summative assessments, please see the ***Westside Students' Contract for Missing Evidence of Learning***.

Safety Agreement

- All students will receive a safety agreement and will sign and return the UGDSB Student Safety Record.

Electronic Devices

- The science department at Westside S.S. has a policy that no electronic devices (e.g. cell phones, tablets, iPods, mp3 players, etc.) are allowed during evaluations. For this reason, students are reminded to bring a scientific calculator when needed.

Classroom Rules

- Students are expected to follow the rules of conduct, as referenced on the school's web site: <http://www.ugdsb.on.ca/westside/>.

In addition to these general rules of Westside Secondary School, the rules for the science classroom are as follows:

- no food or drink of any kind is allowed in a science classroom
- respect the people, equipment, and furnishings of the science classroom
- immediately stop any activity and give your attention to the teacher when asked to do so
- summative evaluations of learning will not leave the classroom, but are available for students to discuss with the teacher