



Westside Secondary School

Orangeville, Ontario, Canada



519-938-9355

www.ugdsb.on.ca/westside

Course: SNC1D	Teacher	Phone Extension	Email
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Course Description: 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 the four units of study, as listed below.

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/science910_2008.pdf.

Unit of Study	Big Ideas
Sustainable Ecosystems	<ul style="list-style-type: none"> Ecosystems are dynamic and have the ability to respond to change, within limits, while maintaining their ecological balance. People have the responsibility to regulate their impact on the sustainability of ecosystems in order to preserve them for future generations.
Atoms, Elements and Compounds	<ul style="list-style-type: none"> Elements and compounds have specific physical and chemical properties that determine their practical uses. The use of elements and compounds has both positive and negative effects on society and the environment. Trends can be used to make informed predictions. Precise and accurate measurements of matter enable more thorough understanding of physical and chemical properties.
The Characteristics of Electricity	<ul style="list-style-type: none"> Electricity is a form of energy produced from a variety of non-renewable and renewable sources. The production and consumption of electrical energy has social, economic and environmental implications. Static and current electricity have distinct properties that determine how they are used. The transformation and transportation of energy drives the flow of electricity.
The Study of the Universe	<ul style="list-style-type: none"> Different types of celestial objects in the solar system and universe have distinct properties that can be investigated and quantified.

	<ul style="list-style-type: none"> • People use observational evidence of the properties of the solar system and the universe to develop theories to explain their formation and evolution. • Space exploration has generated valuable knowledge, but at enormous cost.
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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.

<p>Achievement Categories: Student learning is assessed and evaluated in a balanced manner with respect to the following four interrelated categories of knowledge and skills.</p>	<p>Knowledge & Understanding Thinking & Inquiry Communication Application</p>
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Assessment and Evaluation: Assessments for and as learning are used to improve student success by providing opportunities to demonstrate understanding of course expectations prior to the evaluation of learning. Evaluations of learning are where students demonstrate their understanding of Big Ideas and key expectations. Failure to complete an evaluation of learning may result in the credit not being granted because certain expectations of the course have not been met.

<p>Term Work Evaluations 70% Biology Unit: Test and Inquiry Activity Chemistry Unit: Test and Lab Activity Earth and Space Science Unit: Test and Inquiry Activity Physics Unit: Test and Lab Activity</p>	<p>Final Assessment(s) 30% 10% Culminating 20% Exam</p>
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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 Agreement.

Textbook

- Nelson Perspectives 9 – replacement fee for a lost or damaged textbook is \$90.

Enhancement Fee

- Voluntary enrichment fees may apply to this course. If a student does not pay, he/she will not be able to complete the activity but will still be able to meet the course expectations.
- \$5.00 for a owl pellet dissection (\$10/owl pellet working with a partner)

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