



Westside Secondary School

Orangeville, Ontario, Canada



developed: June 2015

revised: January 2018

519-938-9355

www.ugdsb.on.ca/westside

| Course: SNC2D | Teacher | Phone Extension | Email |
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Course Description: This course enables students to develop a deeper understanding of concepts in chemistry, physics, biology, and Earth and space science. Additionally, this course enables students to further develop their practical skills in scientific investigations and to apply their understanding of science in real-world situations.

Prerequisite: Grade 9 Academic Science (SNC1D)

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 the following website:

http://www.edu.gov.on.ca/eng/curriculum/secondary/science910_2008.pdf

| Unit of Study | Big Ideas |
|---|--|
| Chemistry - Chemical Reactions | <ul style="list-style-type: none"> The properties of elements can be used to predict the types of compounds they may form. Compounds form in predictable ways and they have predictable properties. Chemical reactions follow predictable patterns. Chemical reactions may have a negative impact on the environment, but they can also be used to address environmental challenges. |
| Physics - Light and Geometric Optics | <ul style="list-style-type: none"> Light has characteristics and properties that can be manipulated with mirrors and lenses for a range of uses. Society has benefited from the development of a range of optical devices and technologies. |
| Biology - Tissues, Organs and Organ Systems of Living Things | <ul style="list-style-type: none"> The structures of cells, tissues and organs facilitate their function(s). Plants and animals, including humans, are made of specialized cells, tissues, and organs that are organized into systems. Developments in medicine and medical technology can have social and ethical implications. |
| Earth and Space Science - Climate Change | <ul style="list-style-type: none"> Earth’s climate is dynamic and is the result of many interacting systems and processes. Correlation does not imply causation. Global climate change is influenced by both anthropogenic and non-anthropogenic factors. Climate change affects living things and natural systems in a variety of ways. People have the responsibility to assess their impact on climate change and to identify effective courses of action to reduce this impact. |

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 in a balanced manner with respect to the following four interrelated categories of knowledge and skills:

Knowledge and Understanding
Thinking and Inquiry
Communication
Application

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 the expectations of the course have not been met.

| | |
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| Term Work Evaluations: 70% Chemistry Unit: Test and Lab Activity Physics Unit: Test and Inquiry Activity Biology Unit: Test and Lab Activity Earth and Space Science Unit: Test and Inquiry Activity | Final Evaluation(s): 30% Culminating (4%). Exam (26%) |
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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 Missed Evidence of Learning**.

Safety Agreement

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

Textbook

- **Nelson Science Perspectives 10** - replacement fee for a lost or damaged textbook is \$90.00

Enhancement Fee

- Voluntary enrichment fees may apply to this course. If a student does not pay, they will not be able to complete the activity but they will still be able to meet the course expectations.
- \$5.00 for a frog dissection (\$10.00/frog working with a partner).
- \$2.50 for an eyeball dissection (\$5.00/eyeball 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