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Westside Secondary School

Orangeville, Ontario, Canada

519-938-9355 www.ugdsb.on.ca/westside

Course: SCH3U	**Teacher:** Mike Manser	**Program Leader:** Mike Manser
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Course Description: This course builds upon concepts in the chemistry units of SNC1D and SNC2D, offering students a deeper understanding of chemical properties and processes and an opportunity to develop analytical skills in lab and research settings by investigating the properties and impacts of chemicals and their reactions.

Prerequisite: Grade 10 Academic Science (SNC2D)

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
Matter, Chemical Trends, & Chemical Bonding	• Every element has predictable chemical and physical properties determined by its structure. • The type of chemical bond in a compound determines the physical and chemical properties of that compound. • It is important to use chemicals properly to minimize the risks to human health and the environment.
Chemical Reactions	• Chemicals react in predictable ways. • Chemical reactions and their applications have significant implications for society and the environment.
Quantities in Chemical Reactions	• Relationships in chemical reactions can be described quantitatively. • The efficiency of chemical reactions can be determined and optimized by applying an understanding of quantitative relationships in such reactions.
Solutions & Solubilities	• Properties of solutions can be described qualitatively and quantitatively, and can be predicted. • Living things depend for their survival on the unique physical and chemical properties of water. • People have a responsibility to protect the integrity of Earth's water resources.
Gases & Atmospheric Chemistry	• Properties of gases can be described qualitatively and quantitatively, and can be predicted. • Air quality can be affected by human activities and technology; humans are affected by the atmosphere. • People have a responsibility to protect the integrity of Earth's atmosphere.

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 certain expectations of the course have not been met.

Term Work Evaluations: 70%	**Final Evaluation(s): 30%**
Matter, Chemical Trends, & Chemical Bonding Unit: Test and Inquiry Chemical Reactions Unit: Test and Lab Quantities in Chemical Reactions: Test and Lab Solutions & Solubilities: Test and Lab Gases & Atmospheric Chemistry: Test & Lab	Culminating (4%) Exam (26 %)

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, will sign and return the UGDSB Student Safety Agreement.

Textbook

- Nelson Chemistry 11 – replacement fee for a lost or damaged textbook is $90

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