



# École Windsor Secondary

North Vancouver School District

## Sciences naturelles 9 (Fr. Imm.): COURSE OUTLINE

Teacher: Ms. Eموke Madar

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### Course Description:

The primary goal of **Sciences naturelles 9** is to give students the knowledge, skills, and competencies to be active, informed citizens who are able to think critically, understand and explain the perspectives of others, make judgments, and communicate ideas effectively.

Science and scientific literacy play a key role in educating citizens of today for the world of tomorrow. Critical to succeeding in this endeavour are the core competencies that provide students with the ability to think critically, solve problems, and make ethical decisions; to communicate their questions, express opinions, and challenge ideas in a scientifically literate way; and to exercise an awareness of their role as ecologically literate citizens, engaged and competent in meeting the responsibilities of caring for living things and the planet.

### **BIG IDEAS – *what the students will understand***

Cells are derived from cells.

The electron arrangement of atoms impacts their chemical nature.

Electric current is the flow of electric charge.

The biosphere, geosphere, hydrosphere, and atmosphere are interconnected, as matter cycles and energy flows through them.

<b>Curricular Competencies</b>	<b><i>What the students will do:</i></b> <ul style="list-style-type: none"><li>• Questioning and predicting</li><li>• Planning and conducting</li><li>• Processing and analyzing data and information</li><li>• Evaluating</li><li>• Applying and innovating</li><li>• Communicating</li></ul>
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<p style="text-align: center;"><b>Content</b></p>	<p><b><i>What the students will know:</i></b></p> <ul style="list-style-type: none"> <li>• <b>Asexual and sexual reproduction</b></li> <li>• <b>Human</b> sexual reproduction</li> <li>• <b>Elements</b> and the <b>periodic table</b></li> <li>• <b>Compounds</b> formed by elements</li> <li>• <b>Voltage, current, and resistance</b></li> <li>• <b>Electric circuits</b></li> <li>• Effects of <b>solar radiation</b> on the <b>cycling of matter</b></li> <li>• <b>Matter cycles</b> within <b>ecosystems</b></li> <li>• <b>Sustainable</b> systems</li> </ul>
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### **Resources:**

- Notes packages and worksheets will be provided in class
- Textbook BC Sciences 9 Connexion (McGraw-Hill Ryerson) available in class
- Scientific calculator

### **Assessment:**

- Quizzes and unit tests
- Laboratory reports
- Research presentations
- Group projects

### **Proficiency scale:**

To achieve the proficiency scale “**emergent**”, the student will be able to demonstrate an **initial** understanding of the concepts and competencies relevant to the expected learning.

To achieve the proficiency scale “**developing**”, the student will be able to demonstrate a **partial** understanding of the concepts and competencies relevant to the expected learning.

To achieve the proficiency scale “**proficient**”, the student will be able to demonstrate a **complete** understanding of the concepts and competencies relevant to the expected learning.

To achieve the proficiency scale “**extending**”, the student will be able to demonstrate a **sophisticated** understanding of the concepts and competencies relevant to the expected learning.

# **Policies and Procedures**

## **Teacher goals:**

- Create a positive learning environment
- Encourage the development of strong work habits
- Maintain high standards and expectations
- Maintain open lines of communication with students and parents/guardians
- Support students in their learning
- Provide clarifications if doubts/questions arise

## **Student expectations:**

- Respect the School Policies and Procedures
- Arrive punctually, prepared with all the required materials, and be ready to work in every class
- Maintain a positive and respectful attitude and engage in learning
- Have consistent attendance (any absence should be excused and communicated in advance)
- Not use cell phones, smart watches, nor headphones at any time in class
- Complete homework on time
- Ask for help (in class or during tutorial) or for a challenge
- Write tests on the days they are assigned
- Check the MS TEAMS page for support material, notes and additional information