

**Teacher Name:** *Elise Ahern-Davy*

**Subject:**

*Science and  
Technology*

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**Grade Level**

*W.O.T.P /SST*

**Course Description:**

The course covers a variety of topics within the science realm. The topics covered are intended to enhance students' understanding of scientific concepts that are relevant to themselves and their world. The course will be delivered through a series of units that incorporate project- based learning and hands-on experiences.

**Course Content:**

Term 1: August 30 <sup>th</sup> – November 4 <sup>th</sup>		20 % of year
Content	Timeline (Dates)	Evaluation Methods
Matter <ul style="list-style-type: none"> <li>• Atoms and molecules</li> <li>• Mass, volume, density</li> <li>• States of matter and phase changes</li> <li>• Acids and bases</li> <li>• Mixtures</li> <li>• Pure substances</li> <li>• Physical and Chemical changes</li> </ul>	September -November 2022	Students will be evaluated according to the following breakdown: Assignments : 30 % Labs : 30% Projects : 30 % Participation : 10 %
Term 2: November 4 <sup>th</sup> – February 23 <sup>rd</sup>		20 % of year
Content	Timeline (Dates)	Evaluation Methods
The Human Body <ul style="list-style-type: none"> <li>• Nutrition and Digestion</li> <li>• Cardio-respiratory system</li> <li>• Nervous System</li> <li>• Sensory organs</li> </ul>	November 2022-February 2023	Students will be evaluated according to the following breakdown: Assignments : 30 % Labs : 30% Projects : 30 % Participation : 10 %

Term 3: February 24 <sup>th</sup> – June 22 <sup>nd</sup>		60 % of year
Content	Timeline (Dates)	Evaluation Methods
Space and Astronomy <ul style="list-style-type: none"> <li>• Astronomical concepts (solar system, galaxies, auroras, etc...)</li> </ul>	February 2023	Students will be evaluated according to the following breakdown: Assignments : 30 % Labs : 30% Projects : 30 % Participation : 10 %
Technological World <ul style="list-style-type: none"> <li>• Coding and robotics</li> <li>• Technical drawings and plans</li> <li>• Materials and constraints</li> <li>• Engineering</li> </ul>	March-April 2023	
Biodiversity and the Environment <ul style="list-style-type: none"> <li>• Evolution</li> <li>• Plant and animal species and survival</li> <li>• Habitats</li> <li>• Biomes</li> <li>• Environmental resources (human use, sustainability, and protection)</li> </ul>	April-June 2023	
<b>RESOURCES USED:</b>	<i>Worlds 1 and 2 Pearson ERPI, [The Human Organism (First Year of Cycle Two)]</i>	

\*Course content & timelines may be adjusted as the year progresses to meet the needs of the students\*

**Communication:**

Students will be provided with a minimum of 4 communications throughout the school year.

- October 15<sup>th</sup> – Progress report
- November 20<sup>th</sup> – 1<sup>st</sup> term report card
- March 15<sup>th</sup> – 2<sup>nd</sup> term report card
  - July 10<sup>th</sup> – Final report card

## General Information

**Classroom Expectations:** In order for each student to feel safe and comfortable in the classroom, a respectful attitude is expected of all. This includes respecting one another, the classroom environment, and everyone's right to learn. Students are expected to arrive to class on time and with all necessary materials. Students are expected to take an active role in their learning by participating in lessons and asking questions when clarification is needed. Students are expected to follow all school rules inside of the classroom.

**Absences:** Students are responsible for finding out what they have missed should they be absent. Students are responsible for getting materials (notes, assignments, etc...) that they have missed from the designated folder in the classroom or myself. Should a student miss an evaluation (lab, quiz, test, etc...) due to an absence that has been justified by a parent or guardian, they will be given an opportunity to make up the evaluation in the format of the teacher's choosing.

**Laboratory Safety:** Students are expected to follow the general laboratory safety procedures at all times. Students will be instructed on proper laboratory safety procedures and safety rules will be posted in the lab as a reminder of appropriate behaviours and precautions to take when working in the lab. When they use instruments, tools or machines, students are expected to be aware of the applicable safety standards and work carefully in the lab. When in doubt, they should ask the teacher or technician to confirm that they are working safely or that they are using materials properly.

**Laboratory Equipment:** Students are responsible for the equipment that they use. If equipment is intentionally broken or damaged or damaged as the result of inappropriate lab behaviour, the student is responsible for replacing it or paying the replacement fee. |