**Chateauguay Valley Regional**

**Course Outline and Evaluation Criteria**

**Teacher’s name:** Brandon Borland **Email**: bborland@nfsb.qc.ca

**Course:** Science and Technology **Year**: 2021-2022

**Level**: Secondary 1 **Tutorials**: Any lunch by request.

**Prerequisites**: None

* **Objectives**:
  + Students will be evaluated on their ability to:
* Seek answers or solutions to scientific or technological problems
* Make the most of their knowledge of science and technology
* Communicate in the language used in science and technology
  + Both *Practical* and *Theory* components will be evaluated and reported on at the end of every term
  + The students’ knowledge of the *Material* *World, Living World, Earth and Space and the Technological World* will also be evaluated throughout the year

**Materials**: 1 ½ inch binder, lined loose-leaf paper, pencil case containing pencils, pens (red and blue), an eraser, liquid paper, highlighters, 1 ruler, 1 calculator.

**Types of Evaluation:**

Students will be evaluated using a variety of tools, including: Tests, Quizzes, Projects, Presentations, Experimental Activities and Technological Design Activities.

**Evaluation Breakdown:**

Practical = 40%

Theory = 60%

**Final Evaluations/Exams:**

Formal assessment planned June 2022

**Course Content:**

**Chapter 1 Matter**

* 1. States of Matter
  2. Mass
  3. Volume
  4. Temperature
  5. PH
  6. Characteristic Properties

**Chapter 2 Changes in Matter**

2.1 Mixtures

2.2 Solutions

2.3 Separation of Mixtures

**Chapter 3**

3.1 Species

3.2 Taxonomy

3.3 Population

3.4 Habitat

3.5 Ecological Niche

3.6 Evolution

3.7 Physical and behavioral adaptation

**Chapter 4**

4.1 Characteristics of living things

4.2 Plants and animals

4.3 Cellular components/Microscope

4.4 Reproduction

4.5 Reproductive mechanism in plants

4.6 Reproductive mechanism in animals

**Chapter 5**

5.1 Earth internal structure and spheres

5.2 Lithosphere

5.3 Hydrosphere

5.4 Atmosphere

5.5 Water cycle

5.6 Tectonic plates

5.7 Orogenesis

5.8 Volcanoes

5.9 Earthquakes

5.10 Erosion

**Chapter 6 Space**

6.1 Light

6.2 Orbital Rotation

6.3 Seasons

6.4 Phases of the Moon

6.5 Eclipses

**Chapter 7 Forces and motion**

7.1 Effects of force

7.2 Types of motion

7.3 Basic mechanical functions

**Chapter 8 Engineering**

8.1 Specifications

8.2 Design plan

8.3 Technical diagram

8.4 Raw material

8.5 Materials

8.6 Equipment

**LABS:** When it is not possible to make up a lab, you will be given the data collected during the lab. **You are responsible** for completing the required questions, calculations, graphs (etc.) and for submitting your work at the start of the next class.

**CLASSROOM BEHAVIOUR:**

1. Be punctual and arrive with all the necessary material at all times.
2. No cellphones. If you are caught with one, it will be seized.
3. No backpacks.
4. Be respectful of your teacher and your peers at all times.
5. Keep an open mind.
6. Have Fun!!