**Course Outline Science 9**

2022-2023

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The focus will be to explore the relationship between matter and energy interactions on a macro scale.

Students will deepen their understanding of the origins of matter, diversity of life, heredity, and ecology as well as the main principles of environmental stewardship and conservation.

**Units**

1. **The Nature of Science**

Strand 1 – Earth and its Place in the Universe

Strand 2 – Ecosystems: Energy, Matter and Interactions

Strand 3 – From Molecules to Organisms

1. **Learning and Living Sustainably**

Strand 1 – Safety

Strand 2 – Sustainability

Strand 3 – Applied Technology

1. **Scientific Literacy**

Students will work towards being scientifically literate when they are familiar with and able to engage in, the following processes within a science context: inquiry, problem solving and decision making.

**Formative assessments** will be given to provide feedback, determine what you can do well and what you need to improve upon, help you develop the ability to self-assess and involve you actively in your learning.

**Summative assessments** will be used to evaluate your learning at the end of an instructional period. Work that includes applied knowledge and understanding, communication, investigation, making connections, and research skills (to be assessed through projects, answers, laboratory work and reports, etc.) will also be part of the summative mark.

**Evaluation**

###### The Nature of Science 30%

###### Learning and Living sustainably 30%

Scientific Literacy 10%

Final assessment 30%

**Materials**

Pen/Pencil Notebook/Binder Scientific Calculator Electronic Device

Extra help will available as needed – mornings, lunch time or after school

If a student fails a summative assessment, they can apply for an opportunity for a redo to obtain a replacement mark of maximum 65%. The student must apply with a request to redo form, if approved, they must attend a help session on section(s) they struggled with on the assessment, and it must be completed within 2 weeks of original assessment.

Office 365 (Teams, OneNote, etc) will be used throughout the semester to aid in learning.