



Standards and Procedures 2023-2024

Subject & Grade Level:	Science and Technology 204
Teacher:	Steven Robertson
School Year:	2023 - 2024

Message to Parents:

The successful study of high school science involves the memorization and understanding of large amounts of information. Students are required to keep excellent notes and to frequently review them.

Important Reporting Dates:

Progress Report: October 16

Term 1 - Parent/Teacher interview: November 23, 2023

Term 2 - Parent/Teacher interview: February 22, 2024

Term 3 - Available online by June 25, 2024

Teacher Methods of Communication:

EMSB email / Phone call by request

Homework website: <https://sites.google.com/view/facehighschool309/home>

Term 1 - 20% of School Grade			
Competency Evaluated: Science Theory (with some Practical Science)			
Evaluation Methods/Tools	Topic / Skill Evaluated	Timeline / Frequency of Evaluations	Weight of Evaluation
1. Tests/assignments	(See course content)	Regularly	70 %
2. Science labs/reports	Experiments/reports	Periodically	30 %



Term 2 - 20% of School Grade			
Competency Evaluated: Science Theory (with some Practical Science)			
Evaluation Methods/Tools	Topic / Skill Evaluated	Timeline / Frequency of Evaluations	Weight of Evaluation
1. Tests/assignments	(See course content)	Regularly	70 %
2. Science labs/reports	Experiments/reports	Periodically	30 %

Term 3 - 60% of School Grade			
Final Exams: 2 Final EMSB June Exams: Science and Technology Theory Exam Science and Technology Lab Exam			
Competency Evaluated: Science Theory			
Evaluation Methods/Tools	Topic / Skill Evaluated	Timeline / Frequency of Evaluations	Weight of Evaluation
1. Tests/assignments	(See course content)	Regularly	70%
2. Final theory exam	All topics covered	June 2023	30%
Competency Evaluated: Practical Science			
Evaluation Methods/Tools	Topic / Skill Evaluated	Timeline / Frequency of Evaluations	Weight of Evaluation
1. Labs/assignments	Experiments/reports	All results from the year	70%
2. Final Lab exam	All skills developed	June 2023	30%

Late work policy:

Assignments are expected to be completed on time. Late assignments will be accepted with a valid reason. Grade deductions are possible for non-justified late assignments.

**Science & Technology Cycle 1
Program Content – Compulsory Concepts**

The Material World	The Living World
Characteristic Properties	Habitat
Mass	Ecological Niche
Volume	Species
Temperature	Population
States of Matter (solid, liquid, gas)	Physical & Behavioural Adaptation
Acidity / Alkalinity	Evolution
Physical Change	Taxonomy
Chemical Change	Genes & Chromosomes
Conservation of Matter	Asexual & Sexual Reproduction
Mixtures	Reproductive Mechanisms in Plants
Solutions	Reproductive Mechanisms in Animals
Separation of Mixtures	Reproductive Organs
Atom	Gametes
Element	Fertilization
Periodic Table	Pregnancy
Molecule	Stages of Human Development
	Contraception
	Methods Preventing Zygote Implantation in Uterus
	Sexually Transmitted Diseases (STDs)
	Characteristics of Living Things
	Plant and Animal Cells
	Photosynthesis and Respiration
	Cellular Components (visible under microscope)
	Inputs & Outputs (energy, nutrients, waste)
	Osmosis & Diffusion

Earth and Space	The Technological World
Internal Structure of the Earth	Specifications
Lithosphere	Design Plan
Hydrosphere	Technical Drawing
Atmosphere	Manufacturing Process Sheet
Types of Rocks (Basic Minerals)	Raw Material
Atmospheric Layers	Material
Water (distribution)	Equipment
Air (composition)	
Types of Soil	System (overall function, inputs, processes, outputs, control)
Relief	Components of a system
Tectonic Plate	Basic mechanical functions (links, guiding control)
Volcano	Energy transformations
Earthquake	Type of motion
Orogenesis	Effects of a force
Erosion	Simple Machines
Natural Energy Sources	Mechanisms that transmit motion
Winds	Mechanisms that bring about a change in motion
Water Cycle	
Renewable & Non-renewable Energy Resources	
Universal Gravitation (qualitative study)	
Solar System	
Light (properties)	
Cycles of Day & Night	
Phases of the Moon	
Eclipses	
Seasons	
Comets	
Aurora Borealis (Northern Lights)	
Meteoroid Impact	