COMMISSION SCOLAIRE WESTERN QUÉBEC SCHOOL BOARD
VIRTUAL CAMPUS

Standards and Procedures for the 2025-2026 School Year

Environmental Science and Technology, Secondary 4

Evaluation and Weighting of Competencies:

Subject Competencies	Term 1 (20%)	Term 2 (20%)	Term 3 (60%)
Practical: Seeks answers or solutions to scientific or technological problems (40%)	Practical exercises/labs (100%)	Practical exercise/labs (100%)	Practical exercises/labs (100%)
Theory: Makes the most of his/her knowledge of science and technology (60%)	Unit tests /exams (40%) Assignments (60%)	Unit tests /exams (40%) Assignments (60%)	Unit tests /exams (30%) Assignments (40%) Final exam (30%)

General Information regarding evaluation:

In addition to submitted assignments, there will be ongoing formative assessments in the form of online assignments, class discussions, assignments that will be completed using various online platforms, and group assignments completed during class.

Textbook: Observatory – The Environment

- WQSB Virtual Campus teachers provide instruction and evaluation for this course.
- The Virtual Campus respects the timetable for report cards identified by each school.
- Online students will complete a final theory exam at the end of the school year where required by the local school.
- Students must complete their own work and complete evaluations independently. Supervision of tests is required at schools.
- In cases of cheating:
  - First time, students involved will be given zero on the assignment/test with the opportunity to re-do assignment for maximum of 60%. School/family will be informed.
  - Second time, students involved will be given zero and additional consequences.

Online Context: Real-Time – 4 x 50-minute periods per week

<table>
<tr><td colspan="4">PROGRESSION OF LEARNING (Compulsory Concepts) – Secondary IV EST</td></tr>
<tr><td></td><td>Term 1</td><td>Term 2</td><td>Term 3</td></tr>
<tr><td>Living World</td><td>Genetics
Genes (heredity, character traits, alleles)
Genotype and phenotype
Protein synthesis</td><td></td><td>Ecology
Ecological footprint
Ecotoxicology</td></tr>
<tr><td rowspan="2">Material World</td><td rowspan="2">Changes
Motion, forces and work</td><td>Organization
Simplified atomic model
Nomenclature and notation
polyatomic ions
The mole
Periodic classification (atomic number, atomic mass, periodicity of properties)
Isotopes</td><td>Changes
Oxidation
Salts
Types of bonds (covalent, ionic)
Stoichiometry
Nuclear changes
Energy (thermal, potential, kinetic)</td></tr>
<tr><td>Properties
Concentration of aqueous solutions (g/L, percentage, ppm, mol/L)
Strength of electrolytes</td><td>Electricity and Magnetism
Kirchhoff’s laws
Electrical Fields
Magnetic field of a solenoid</td></tr>
<tr><td>Earth and Space</td><td></td><td></td><td>Characteristics of the Earth
Contamination (lithosphere, hydrosphere, atmosphere)
Biogeochemical cycles (Phosphorous)</td></tr>
<tr><td rowspan="3"></td><td rowspan="2"></td><td rowspan="2"></td><td>Biotechnology
Processes (cloning, wastewater treatment, biodegradation)</td></tr>
<tr><td>Graphical language
Interpreting diagrams (orthogonal projection, axonometric projection)
Dimensional tolerances</td></tr>
<tr><td></td><td></td><td>Electrical Engineering
Conduction, insulation and protection
Switches</td></tr>
<tr><td></td><td></td><td>Manufacturing
Shaping using machines and tools
Drilling, tapping and threading
Measurement</td></tr>
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