

Green Mining

Quebec	
Cycle Three (Elementary)	
Systems and Interaction	
<u>Competencies:</u>	<p>Competency 1: To propose explanations for or solutions to scientific or technological problems.</p> <ul style="list-style-type: none"> • Appropriate description of the problem or set of problems from a scientific or technological point of view • Use of an approach geared to the nature of the problem or set of problems • Development of relevant explanations or realistic solutions • Justification of explanations or solutions <p>Competency 3: To communicate in the languages used in Science and Technology.</p> <ul style="list-style-type: none"> • Understanding of scientific and technological information • Correct transmission of scientific and technological information
<u>Key Features:</u>	Environmental technologies (e.g. recycling, composting)
Cycle One (Secondary I & II)	
Diversity of Life Forms	
<u>Competencies:</u>	<p>Competency 1: Seeks answers or solutions to scientific or technological problems.</p> <ul style="list-style-type: none"> • Development of a suitable procedure for the situation • Development of relevant conclusions, explanations or solutions <p>Competency 2: Makes the most of his/her knowledge of science and technology.</p> <ul style="list-style-type: none"> • Formulation of appropriate questions • Relevant explanations or solutions • Suitable justification of explanations, solutions, decisions or opinions <p>Competency 3: Communicates in the languages used in science and technology.</p> <ul style="list-style-type: none"> • Messages produced using proper vocabulary and in accordance with related rules and conventions
<u>Compulsory Concepts:</u>	Habitat Ecological niche Species

Cycle Two (Secondary III - Second Year)

Ecology

Competencies:

Competency 1: Seeks answers or solutions to scientific or technological problems.

- Development of a suitable procedure for the situation
- Development of relevant conclusions, explanations or solutions

Competency 2: Makes the most of his/her knowledge of science and technology.

- Formulation of appropriate questions
- Relevant explanations or solutions
- Suitable justification of explanations, solutions, decisions or opinions

Competency 3: Communicates in the languages used in science and technology.

- Appropriate production or sharing of scientific and technological messages

Compulsory Concepts:

Dynamics of communities - biodiversity, disturbances

Dynamics of ecosystems - trophic relationships, primary productivity, material and energy flow, chemical engineering