

Quebec Alternative Energies Curriculum Connections

Grade 6-8 Science

• Energy

- Sources of energy:
 - solar energy 2
 - hydraulic energy (e.g. hydroelectric dam, tidal energy) 2
 - wind energy 2
 - fossil fuel-based energy 3
- Transmission of energy (e.g. radiation) 3
- Transformation of energy:
 - renewable forms of energy 2
 - nonrenewable forms of energy 3

• Energy

- Forms of energy:
 - forms of energy (e.g. mechanical, electrical, chemical, heat, solar, sound, nuclear) 2
 - sources of energy (e.g. moving water, chemical reaction in a battery, sunlight) 3
- Transmission of energy:
 - thermal conductivity (e.g. conductors and insulators) 3
 - electrical conductivity (e.g. conductors and insulators) 3
 - simple electric circuits 3
 - sound waves (e.g. volume, timbre, echo) 2
 - light radiation (e.g. reflection, refraction) 3
 - convection (e.g. in gases and liquids) 2
- Transformation of energy:
 - consumption and conservation of energy by human beings (e.g. electric meter, insulation) 2 3
 - transformations of energy from one form to another (e.g. transformation by machines) 2 3