

## 10 Science

### Chemistry

- WHMIS
- Elements and the periodic table
- How elements form compounds
- Polyatomic compounds
- Ionic compounds name to formula and formula to name
  - Binary
  - Multivalent
  - Polyatomics
- Naming molecular compounds
- Hydrocarbons
- Word equations
- Conserving mass
- Writing skeleton equations
- Balancing chemical equations
- types of reactions (combustion, synthesis, decomposition, single displacement, double displacement)
  - identify type of reaction
  - predict the products
- factors that affect the rate of reaction
- Properties of acids and bases
- Formulas for acids and bases
- pH scale

### Physics

- Significant digits
- Average speed
- Graphing distance vs time
- Instantaneous speed
- Acceleration
- Graphing speed vs time
- Vectors
- Scientific notation

### Ecosystems

- Silence of the frogs
- Extinction in the modern world
- Canada's endangered species
- Ecology

- Food web definitions
- Cycling of organic matter
- Carbon cycle
- Nitrogen cycle
- Phosphorous cycle
- Energy flow