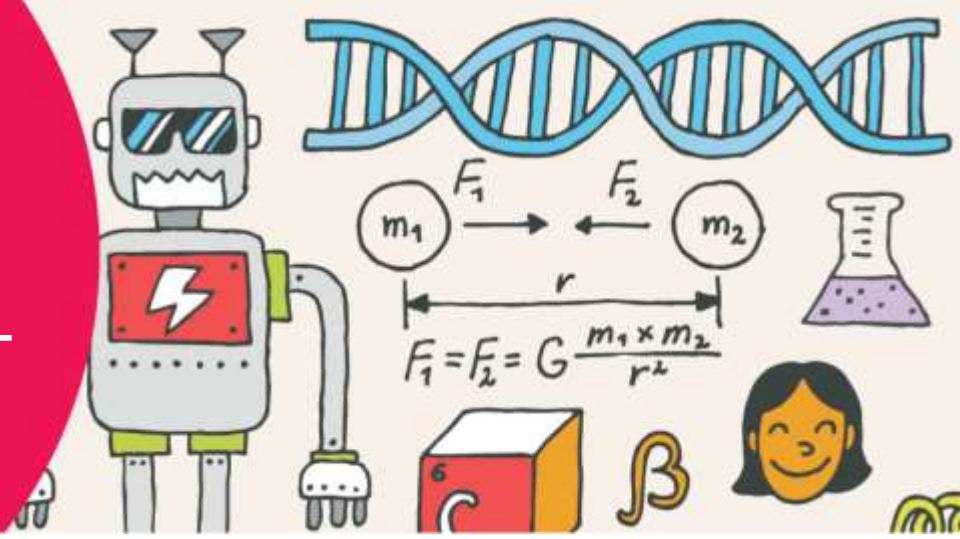
Electri-city

Curriculum Connections - Québec



PRIMARY CYCLE 3 – SCIENCE AND TECHNOLOGY

Material World

B. Energy

2. Transmission of energy

b. distinguishes between substances that are electrical conductors and those that are electrical insulators.

c. Identifies the components of a simple electric circuit.

d. Describes the functions of the components of a simple electric circuit

3. Transformation of energy

e. Recognizes the transformation of energy from one form to another in various devices.

E. Techniques and instrumentation

4. Design and manufacture of instruments, tools, machines, structures, devices, models, and simple circuits.

a. Knows the symbols associated with types of motion, electrical components and mechanical parts

b. Interprets a diagram or a plan containing symbols

c. Uses symbols associated with mechanical parts and electrical components in a diagram or drawing

F. Appropriate language

2. Conventions and types of representations specific to the concepts studied.

a. Communicates using appropriate types of representations that reflect the rules and conventions of science and technology (e.g. symbols, graphs, tables, drawings, sketches, norms and standardization

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SECONDARY CYCLE TWO – SCIENCE AND TECHNOLOGY

Material World

F. Electricity and electromagnetism

1. Electricity

d. Electrical circuits

i. Describes the function of different elements of an electrical circuit.

ii. Describes the two types of connections in electrical circuits (series, parallel).

iv. Represents a simple electrical circuit using a diagram.

f. Kirchhoff's laws

i. Describes the distribution of current in various components of an electrical circuit.

iii. Describes the distribution of the voltage across various components of an electrical circuit.