

Re-Energy Curriculum Connections

Activity: Introduction to Wind Energy

Northwest Territories

- ❖ Science 7: Heat and Temperature
- ❖ Science 9: Electrical Principles and Technologies
- ❖ Science 10: Energy Flow in Technological Systems
- ❖ Science 24: Understanding Common Energy Conversion Systems
- ❖ Science 20-4: Understanding Common Energy Conversion Systems
- ❖ Science 30: Energy and the Environment (D1.4, D1.5k, D1.3s, D2.3k, D2.4k, D2.1sts, D2.3s, D2.4s)

New Brunswick

- ❖ Science 6: Physical Science: Electricity
- ❖ Science 8: Physical Science: Water Systems on Earth
- ❖ Science 9: Physical Science: Characteristics of Electricity

Newfoundland & Labrador

- ❖ Science 6: Physical Science: Electricity
- ❖ Science 9: Electricity

Prince Edward Island

- ❖ Science 6: Physical Science: Electricity
- ❖ Science 9: Physical Science: Characteristics of Electricity

Nova Scotia

- ❖ Science 6: Physical Science: Electricity

British Columbia and Yukon

- ❖ Science 6: Physical Science: Electricity
- ❖ Sustainable Resources 11: Energy (E1, E2)

Nunavut

- ❖ Science 9

Quebec, English

- ❖ Science & Tech, EC2&3: Energy
- ❖ Science & Tech, SC1: The Earth and Space
- ❖ Science & Tech, SC1: The Technological World
- ❖ Science & Tech, SC2: The Earth and Space
- ❖ Env. Science & Tech, SC2: The Earth and Space

Saskatchewan

- ❖ Science 6: Physical Science: Understanding Electricity (EL6.1b)
- ❖ Science 9: Physical Science: Characteristics of Electricity (CE9.4f, CE9.4g)

Activity: Build a Wind Turbine

Northwest Territories

- ❖ Science 7: Heat and Temperature
- ❖ Science 9: Electrical Principles and Technologies
- ❖ Science 10: Energy Flow in Technological Systems
- ❖ Science 24: Understanding Common Energy Conversion Systems
- ❖ Science 20-4: Understanding Common Energy Conversion Systems
- ❖ Science 30: Energy and the Environment (D1.4, D1.5k, D1.3s, D2.3k, D2.4k, D2.1sts, D2.3s, D2.4s)

New Brunswick

- ❖ Science 6: Physical Science: Electricity
- ❖ Science 8: Physical Science: Water Systems on Earth
- ❖ Science 9: Physical Science: Characteristics of Electricity

Newfoundland & Labrador

- ❖ Science 6: Physical Science: Electricity
- ❖ Science 9: Electricity

Prince Edward Island

- ❖ Science 6: Physical Science: Electricity
- ❖ Science 9: Physical Science: Characteristics of Electricity

Nova Scotia

- ❖ Science 6: Physical Science: Electricity

British Columbia and Yukon

- ❖ Science 6: Physical Science: Electricity
- ❖ Sustainable Resources 11: Energy (E1, E2)

Nunavut

- ❖ Science 9

Quebec, English

- ❖ Science & Tech, EC2&3: Energy
- ❖ Science & Tech, SC1: The Earth and Space
- ❖ Science & Tech, SC1: The Technological World
- ❖ Science & Tech, SC2: The Earth and Space
- ❖ Env. Science & Tech, SC2: The Earth and Space

Saskatchewan

- ❖ Science 6: Physical Science: Understanding Electricity (EL6.1b)
- ❖ Science 9: Physical Science: Characteristics of Electricity (CE9.4f, CE9.4g)

Activity: Wind Turbine Simulator

New Brunswick

- ❖ Science 6: Physical Science: Electricity
- ❖ Science 8: Physical Science: Water Systems on Earth
- ❖ Science 9: Physical Science: Characteristics of Electricity

Newfoundland & Labrador

- ❖ Science 6: Physical Science: Electricity
- ❖ Science 9: Electricity

Prince Edward Island

- ❖ Science 6: Physical Science: Electricity
- ❖ Science 9: Physical Science: Characteristics of Electricity

Nova Scotia

- ❖ Science 6: Physical Science: Electricity

British Columbia and Yukon

- ❖ Science 6: Physical Science: Electricity
- ❖ Sustainable Resources 11: Energy (E1, E2)

Nunavut

- ❖ Science 9

Quebec, English

- ❖ Science & Tech, EC2&3: Energy
- ❖ Science & Tech, SC1: The Earth and Space
- ❖ Science & Tech, SC1: The Technological World
- ❖ Science & Tech, SC2: The Earth and Space
- ❖ Env. Science & Tech, SC2: The Earth and Space

Saskatchewan

- ❖ Science 6: Physical Science: Understanding Electricity (EL6.1b)
- ❖ Science 9: Physical Science: Characteristics of Electricity (CE9.4f, CE9.4g)

Activity: Introduction to Solar Electricity

Northwest Territories

- ❖ Science 7: Heat and Temperature
- ❖ Science 9: Electrical Principles and Technologies
- ❖ Science 10: Energy Flow in Technological Systems
- ❖ Science 14: Understanding Energy Transfer Technologies
- ❖ Science 24: Understanding Common Energy Conversion Systems
- ❖ Science 30: Energy and the Environment (D1.4, D1.5k, D1.3s, D2.3k, D2.4k, D2.1sts, D2.3s, D2.4s)

New Brunswick

- ❖ Science 6: Physical Science: Electricity
- ❖ Science 7: Physical Science: Heat
- ❖ Science 8: Physical Science: Water Systems on Earth
- ❖ Science 9: Physical Science: Characteristics of Electricity

Newfoundland & Labrador

- ❖ Science 6: Physical Science: Electricity
- ❖ Science 7: Physical Science: Heat
- ❖ Science 9: Electricity

Prince Edward Island

- ❖ Science 6: Physical Science: Electricity
- ❖ Science 9: Physical Science: Characteristics of Electricity

Nova Scotia

- ❖ Science 6: Physical Science: Electricity

British Columbia and Yukon

- ❖ Science 6: Physical Science: Electricity
- ❖ Sustainable Resources 11: Energy (E1, E2)

Manitoba

- ❖ Science 6: Electricity (6-3-16)
- ❖ Science 7: Particle Theory of Matter (7-2-1)

Nunavut

- ❖ Science 6
- ❖ Science 7
- ❖ Science 9

Quebec, English

- ❖ Science & Tech, EC2&3: Energy
- ❖ Science & Tech, SC1: The Earth and Space
- ❖ Science & Tech, SC1: The Technological World
- ❖ Science & Tech, SC2: The Earth and Space

- ❖ Env. Science & Tech, SC2: The Earth and Space

Saskatchewan

- ❖ Science 6: Physical Science: Understanding Electricity (EL6.1b)
- ❖ Science 9: Physical Science: Characteristics of Electricity (CE9.4f, CE9.4g)

Activity: Introduction to Solar Heat Energy

Northwest Territories

- ❖ Science 7: Heat and Temperature
- ❖ Science 9: Electrical Principles and Technologies
- ❖ Science 10: Energy Flow in Technological Systems
- ❖ Science 14: Understanding Energy Transfer Technologies
- ❖ Science 24: Understanding Common Energy Conversion Systems
- ❖ Science 30: Energy and the Environment (D1.4, D1.5k, D1.3s, D2.3k, D2.4k, D2.1sts, D2.3s, D2.4s)

New Brunswick

- ❖ Science 6: Physical Science: Electricity
- ❖ Science 7: Physical Science: Heat
- ❖ Science 8: Physical Science: Water Systems on Earth
- ❖ Science 9: Physical Science: Characteristics of Electricity

Newfoundland & Labrador

- ❖ Science 6: Physical Science: Electricity

- ❖ Science 7: Physical Science: Heat
- ❖ Science 9: Electricity

Prince Edward Island

- ❖ Science 6: Physical Science: Electricity
- ❖ Science 9: Physical Science: Characteristics of Electricity

Nova Scotia

- ❖ Science 6: Physical Science: Electricity

British Columbia and Yukon

- ❖ Science 6: Physical Science: Electricity
- ❖ Sustainable Resources 11: Energy (E1, E2)

Manitoba

- ❖ Science 6: Electricity (6-3-16)
- ❖ Science 7: Particle Theory of Matter (7-2-1)

Nunavut

- ❖ Science 6
- ❖ Science 7
- ❖ Science 9

Quebec, English

- ❖ Science & Tech, EC2&3: Energy

- ❖ Science & Tech, SC1: The Earth and Space
- ❖ Science & Tech, SC1: The Technological World
- ❖ Science & Tech, SC2: The Earth and Space
- ❖ Env. Science & Tech, SC2: The Earth and Space

Saskatchewan

- ❖ Science 6: Physical Science: Understanding Electricity (EL6.1b)
- ❖ Science 9: Physical Science: Characteristics of Electricity (CE9.4f, CE9.4g)

Activity: Build a Solar Oven

Northwest Territories

- ❖ Science 7: Heat and Temperature
- ❖ Science 9: Electrical Principles and Technologies
- ❖ Science 10: Energy Flow in Technological Systems
- ❖ Science 14: Understanding Energy Transfer Technologies
- ❖ Science 24: Understanding Common Energy Conversion Systems
- ❖ Science 30: Energy and the Environment (D1.4, D1.5k, D1.3s, D2.3k, D2.4k, D2.1sts, D2.3s, D2.4s)

New Brunswick

- ❖ Science 6: Physical Science: Electricity
- ❖ Science 7: Physical Science: Heat
- ❖ Science 8: Physical Science: Water Systems on Earth
- ❖ Science 9: Physical Science: Characteristics of Electricity

Newfoundland & Labrador

- ❖ Science 6: Physical Science: Electricity
- ❖ Science 7: Physical Science: Heat
- ❖ Science 9: Electricity

Prince Edward Island

- ❖ Science 6: Physical Science: Electricity
- ❖ Science 9: Physical Science: Characteristics of Electricity

Nova Scotia

- ❖ Science 6: Physical Science: Electricity

British Columbia and Yukon

- ❖ Science 6: Physical Science: Electricity
- ❖ Sustainable Resources 11: Energy (E1, E2)

Manitoba

- ❖ Science 6: Electricity (6-3-16)
- ❖ Science 7: Particle Theory of Matter (7-2-1)

Nunavut

- ❖ Science 6
- ❖ Science 7
- ❖ Science 9

Quebec, English

- ❖ Science & Tech, EC2&3: Energy
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- ❖ Science & Tech, SC2: The Earth and Space
- ❖ Env. Science & Tech, SC2: The Earth and Space

Saskatchewan

- ❖ Science 6: Physical Science: Understanding Electricity (EL6.1b)
- ❖ Science 9: Physical Science: Characteristics of Electricity (CE9.4f, CE9.4g)

Activity: Introduction to Hydro Energy

Northwest Territories

- ❖ Science 24: Understanding Common Energy Conversion Systems
- ❖ Science 20-4: Understanding Common Energy Conversion Systems
- ❖ Science 30: Energy and the Environment (D1.4, D1.5k, D1.3s, D2.3k, D2.4k, D2.1sts, D2.3s, D2.4s)

New Brunswick

- ❖ Science 6: Physical Science: Electricity

Newfoundland & Labrador

- ❖ Science 6: Physical Science: Electricity

Prince Edward Island

- ❖ Science 6: Physical Science: Electricity

Nova Scotia

- ❖ Science 6: Physical Science: Electricity

British Columbia and Yukon

- ❖ Science 6: Physical Science: Electricity
- ❖ Sustainable Resources 11: Energy (E1, E2)

Manitoba

- ❖ Science 6: Electricity (6-3-16)
- ❖ Science 9: Nature of Electricity (S1-3-24)

Quebec, English

- ❖ Science & Tech, EC2&3: Energy
- ❖ Science & Tech, SC1: The Earth and Space
- ❖ Science & Tech, SC1: The Technological World
- ❖ Science & Tech, SC2: The Earth and Space
- ❖ Env. Science & Tech, SC2: The Earth and Space

Saskatchewan

- ❖ Science 9: Physical Science: Characteristics of Electricity (CE9.4f, CE9.4g)

Activity: Build a Hydroelectric Generator

Northwest Territories

- ❖ Science 24: Understanding Common Energy Conversion Systems
- ❖ Science 20-4: Understanding Common Energy Conversion Systems
- ❖ Science 30: Energy and the Environment (D1.4, D1.5k, D1.3s, D2.3k, D2.4k, D2.1sts, D2.3s, D2.4s)

New Brunswick

- ❖ Science 6: Physical Science: Electricity

Newfoundland & Labrador

- ❖ Science 6: Physical Science: Electricity

Prince Edward Island

- ❖ Science 6: Physical Science: Electricity

Nova Scotia

- ❖ Science 6: Physical Science: Electricity

British Columbia and Yukon

- ❖ Science 6: Physical Science: Electricity
- ❖ Sustainable Resources 11: Energy (E1, E2)

Manitoba

- ❖ Science 6: Electricity (6-3-16)
- ❖ Science 9: Nature of Electricity (S1-3-24)

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- ❖ Science & Tech, EC2&3: Energy
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- ❖ Science & Tech, SC1: The Technological World
- ❖ Science & Tech, SC2: The Earth and Space
- ❖ Env. Science & Tech, SC2: The Earth and Space

Saskatchewan

- ❖ Science 9: Physical Science: Characteristics of Electricity (CE9.4f, CE9.4g)

Activity: Introduction to Biomass Energy

Northwest Territories

- ❖ Science 9: Electrical Principles and Technologies
- ❖ Science 30: Energy and the Environment (D1.4, D1.5k, D1.3s, D2.3k, D2.4k, D2.1sts, D2.3s, D2.4s)

New Brunswick

- ❖ Science 6: Physical Science: Electricity

Newfoundland & Labrador

- ❖ Science 6: Physical Science: Electricity

Prince Edward Island

- ❖ Science 6: Physical Science: Electricity

British Columbia and Yukon

- ❖ Science 6: Physical Science: Electricity
- ❖ Sustainable Resources 11: Energy (E1, E2)

Saskatchewan

- ❖ Science 6: Physical Science: Understanding Electricity (EL6.1b)
- ❖ Science 9: Physical Science: Characteristics of Electricity (CE9.4f, CE9.4g)

Activity: Build a Biogas Generator

Northwest Territories

- ❖ Science 9: Electrical Principles and Technologies
- ❖ Science 30: Energy and the Environment (D1.4, D1.5k, D1.3s, D2.3k, D2.4k, D2.1sts, D2.3s, D2.4s)

New Brunswick

- ❖ Science 6: Physical Science: Electricity

Newfoundland & Labrador

- ❖ Science 6: Physical Science: Electricity

Prince Edward Island

- ❖ Science 6: Physical Science: Electricity

British Columbia and Yukon

- ❖ Science 6: Physical Science: Electricity

- ❖ Sustainable Resources 11: Energy (E1, E2)

Saskatchewan

- ❖ Science 6: Physical Science: Understanding Electricity (EL6.1b)
- ❖ Science 9: Physical Science: Characteristics of Electricity (CE9.4f, CE9.4g)

Activity: What is Renewable Energy?

Northwest Territories

- ❖ Science 7: Heat and Temperature
- ❖ Science 9: Electrical Principles and Technologies
- ❖ Science 30: Energy and the Environment (D1.4, D1.5k, D1.3s, D2.3k, D2.4k, D2.1sts, D2.3s, D2.4s)

New Brunswick

- ❖ Science 6: Physical Science: Electricity

Newfoundland & Labrador

- ❖ Science 6: Physical Science: Electricity

Prince Edward Island

- ❖ Science 6: Physical Science: Electricity

Nova Scotia

- ❖ Science 6: Physical Science: Electricity

British Columbia and Yukon

- ❖ Science 6: Physical Science: Electricity
- ❖ Sustainable Resources 11: Energy (E1, E2)

Manitoba

- ❖ Science 6: Electricity (6-3-16)

Nunavut

- ❖ Science 6

Quebec, English

- ❖ Science & Tech, EC2&3: Energy
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- ❖ App. Science & Tech, SC2: The Earth and Space

Saskatchewan

- ❖ Science 6: Physical Science: Understanding Electricity (EL6.1b)

Activity: Renewable Energy Sources

Northwest Territories

- ❖ Science 7: Heat and Temperature
- ❖ Science 9: Electrical Principles and Technologies
- ❖ Science 30: Energy and the Environment (D1.4, D1.5k, D1.3s, D2.3k, D2.4k, D2.1sts, D2.3s, D2.4s)

New Brunswick

- ❖ Science 6: Physical Science: Electricity

Newfoundland & Labrador

- ❖ Science 6: Physical Science: Electricity

Prince Edward Island

- ❖ Science 6: Physical Science: Electricity

Nova Scotia

- ❖ Science 6: Physical Science: Electricity

British Columbia and Yukon

- ❖ Science 6: Physical Science: Electricity
- ❖ Sustainable Resources 11: Energy (E1, E2)

Manitoba

- ❖ Science 6: Electricity (6-3-16)

Nunavut

- ❖ Science 6

Quebec, English

- ❖ Science & Tech, EC2&3: Energy
- ❖ Science & Tech, SC1: The Earth and Space
- ❖ Science & Tech, SC1: The Technological World

- ❖ App. Science & Tech, SC2: The Earth and Space

Saskatchewan

- ❖ Science 6: Physical Science: Understanding Electricity (EL6.1b)

Electric Vehicles:

Backgrounder: History of Electric Vehicles

Alberta

- ❖ Grade 7: Structures and Forces
- ❖ Grade 8: Mechanical Systems
- ❖ Science 10: Energy Flow in Global Systems
- ❖ Science 10: Stewardship
- ❖ Social Studies 10: Living in a Globalizing World (10-2)

Backgrounder: Types of Electric Vehicles

Alberta

- ❖ Grade 7: Structures and Forces
- ❖ Grade 8: Mechanical Systems
- ❖ Science 10: Energy Flow in Global Systems
- ❖ Science 10: Stewardship
- ❖ Social Studies 10: Living in a Globalizing World (10-2)

Backgrounder: Electric Vehicle Batteries

Alberta

- ❖ Grade 8 Science: Mix and Flow of Matter
- ❖ Grade 9 Science: Matter and Chemical Change
- ❖ Grade 9 Science: Electrical Principles and Technologies
- ❖ Science 10: Energy Flow in Global Systems
- ❖ Science 10: Energy and Matter in Chemical Change
- ❖ Science 10: Energy Flow in Technological Systems
- ❖ Chemistry 30: Electrochemical Changes

Backgrounder: Electric Vehicle Emissions

Alberta

- ❖ Science 10: Stewardship
- ❖ Science 20: Science Technology and Society
- ❖ Science 30: Energy and the Environment
- ❖ Social Studies 10: To what extent should we embrace globalization? (10-1)
- ❖ Social Studies 10: Living in a Globalizing World (10-2)

Backgrounder: How to Buy An Electric Vehicle

Alberta

- ❖ Science 10: Stewardship

- ❖ Social Studies 10: To what extent should we embrace globalization? (10-1)
- ❖ Social Studies 10: Living in a Globalizing World (10-2)

Energy Storage:

Activity: Energy Storage Word Match

Alberta

- ❖ Grade 7 Science: Interactions and Ecosystems
- ❖ Grade 8 Science: Mix and Flow of Matter
- ❖ Grade 9 Science: Matter and Chemical Change
- ❖ Grade 9 Science: Electrical Principles and Technologies
- ❖ Science 10: Energy and Matter in Chemical Change
- ❖ Science 10: Energy Flow in Technological Systems
- ❖ Science 10: Energy Flow in Global Systems
- ❖ Science 10: Stewardship
- ❖ Science 20: Science Technology and Society
- ❖ Science 30: Chemistry and the Environment
- ❖ Science 30: Energy and the Environment
- ❖ Social Studies 10: To what extent should we embrace globalization? (10-1)
- ❖ Social Studies 10: Living in a Globalizing World (10-2)

Activity: Pumped Hydro Storage

Alberta

- ❖ Grade 9 Science: Matter and Chemical Change
- ❖ Science 10: Energy and Matter in Chemical Change
- ❖ Science 30: Chemistry and the Environment

Activity: Electrostatic Effect

Alberta

- ❖ Grade 7 Science: Interactions and Ecosystems
- ❖ Grade 8 Science: Mix and Flow of Matter
- ❖ Grade 9 Science: Electrical Principles and Technologies
- ❖ Science 10: Energy Flow in Technological Systems
- ❖ Science 10: Energy Flow in Global Systems
- ❖ Science 30: Energy and the Environment

Activity: Endothermic and Exothermic Reactions

Alberta

- ❖ Grade 9 Science: Matter and Chemical Change
- ❖ Science 10: Energy and Matter in Chemical Change
- ❖ Science 30: Chemistry and the Environment
- ❖ Science 30: Energy and the Environment

Activity: Heat Transfer Lab

Alberta

- ❖ Grade 9 Science: Matter and Chemical Change
- ❖ Science 10: Energy and Matter in Chemical Change
- ❖ Science 30: Chemistry and the Environment
- ❖ Science 30: Energy and the Environment