

Program: Energy Revealed

Grade 8 – Ontario Science and Technology Curriculum Connections



| Activity Name                                                                    | Organizing Idea                                 | Learning Outcome                                                                                                                                                                                                                           |
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| <a href="#">Activity: Knowing Energy: Stair Climb</a>                            | N/A                                             |                                                                                                                                                                                                                                            |
| <a href="#">Activity: Knowing Energy: Tea at Home</a>                            | N/A                                             |                                                                                                                                                                                                                                            |
| <a href="#">Activity: Knowing Energy: Race to a kWh</a>                          | N/A                                             |                                                                                                                                                                                                                                            |
| <a href="#">Activity: Knowing Energy: How Intense is Your Electricity Usage?</a> | N/A                                             |                                                                                                                                                                                                                                            |
| <a href="#">Activity: Knowing Energy: The Electricity Grid</a>                   | D. Structures and Mechanisms: Systems in Action | D1. Relating Science and Technology to Our Changing World – Assess the social and environmental impacts of various systems, and evaluate improvements to the systems or alternative ways of meeting the same needs                         |
|                                                                                  |                                                 | D2. Exploring and Understanding Concepts – Demonstrate an understanding of different types of systems and the factors that contribute to their safe and efficient operation                                                                |
| <a href="#">Activity: Knowing Energy: Renewables</a>                             | N/A                                             |                                                                                                                                                                                                                                            |
| <a href="#">Activity: Knowing Energy: The Big Picture</a>                        | N/A                                             |                                                                                                                                                                                                                                            |
| <a href="#">Activity: All About the Baseline</a>                                 | A. Stem Skills and Connections                  | A1. STEM Investigation and Communication Skills – Use a scientific research process, a scientific experimentation process, and an engineering design process to conduct investigations, following appropriate health and safety procedures |
| <a href="#">Activity: Can You Observe How You Conserve?</a>                      | A. Stem Skills and Connections                  | A1. STEM Investigation and Communication Skills – Use a scientific research process, a scientific experimentation process, and an engineering design process to conduct investigations, following appropriate health and safety procedures |
| <a href="#">Activity: Energy Hogs</a>                                            | A. Stem Skills and Connections                  | A1. STEM Investigation and Communication Skills – Use a scientific research process, a scientific experimentation process, and an engineering design process to conduct investigations, following appropriate health and safety procedures |
| <a href="#">Activity: Extra Energy Investigation</a>                             | A. Stem Skills and Connections                  | A1. STEM Investigation and Communication Skills – Use a scientific research process, a scientific experimentation process, and an engineering design process to conduct investigations, following appropriate health and safety procedures |

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| <a href="#">Activity: How Smart is Your Smart Board?</a>                 | A. Stem Skills and Connections | A1. STEM Investigation and Communication Skills – Use a scientific research process, a scientific experimentation process, and an engineering design process to conduct investigations, following appropriate health and safety procedures |
| <a href="#">Activity: Imagination Station</a>                            | A. Stem Skills and Connections | A1. STEM Investigation and Communication Skills – Use a scientific research process, a scientific experimentation process, and an engineering design process to conduct investigations, following appropriate health and safety procedures |
| <a href="#">Activity: Small Appliance Energy Reliance</a>                | A. Stem Skills and Connections | A1. STEM Investigation and Communication Skills – Use a scientific research process, a scientific experimentation process, and an engineering design process to conduct investigations, following appropriate health and safety procedures |
| <a href="#">Activity: Start Me Up!</a>                                   | A. Stem Skills and Connections | A1. STEM Investigation and Communication Skills – Use a scientific research process, a scientific experimentation process, and an engineering design process to conduct investigations, following appropriate health and safety procedures |
| <a href="#">Activity: Take a Look</a>                                    | <b>Grade 4-6</b>               |                                                                                                                                                                                                                                            |
| <a href="#">Activity: Total Energy vs Total Cost</a>                     | A. Stem Skills and Connections | A1. STEM Investigation and Communication Skills – Use a scientific research process, a scientific experimentation process, and an engineering design process to conduct investigations, following appropriate health and safety procedures |
| <a href="#">Activity: Understanding Energy Efficiency in Your School</a> | A. Stem Skills and Connections | A1. STEM Investigation and Communication Skills – Use a scientific research process, a scientific experimentation process, and an engineering design process to conduct investigations, following appropriate health and safety procedures |
| <a href="#">Activity: Community Walk</a>                                 | <b>N/A</b>                     |                                                                                                                                                                                                                                            |
| <a href="#">Activity: School Energy Audit</a>                            | A. Stem Skills and Connections | A1. STEM Investigation and Communication Skills – Use a scientific research process, a scientific experimentation process, and an engineering design process to conduct investigations, following appropriate health and safety procedures |
| <a href="#">Activity: Energy Efficient Lighting</a>                      | <b>Grade 4-7</b>               |                                                                                                                                                                                                                                            |
| <a href="#">Activity: Find the Phantom Load</a>                          | A. Stem Skills and Connections | A1. STEM Investigation and Communication Skills – Use a scientific research process, a scientific experimentation process, and an engineering design process to conduct investigations, following appropriate health and safety procedures |
| <a href="#">Activity: Home Energy Audit</a>                              | A. Stem Skills and Connections | A1. STEM Investigation and Communication Skills – Use a scientific research process, a scientific experimentation process, and an engineering design process to conduct investigations, following appropriate health and safety procedures |
| <a href="#">Activity: Watchers and Seekers</a>                           | A. Stem Skills and Connections | A1. STEM Investigation and Communication Skills – Use a scientific research process, a scientific experimentation process, and an engineering design process to conduct investigations, following appropriate health and safety procedures |

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| <a href="#">Activity: Back to the Future</a>          | Grade 4-7                      |                                                                                                                                                                                                                                            |
| <a href="#">Activity: Changing Our Ways</a>           | Grade 4-7                      |                                                                                                                                                                                                                                            |
| <a href="#">Activity: Exploring Our Energy Ethics</a> | Grade 4-7                      |                                                                                                                                                                                                                                            |
| <a href="#">Activity: Once Upon a Bike</a>            | Grade 4-7                      |                                                                                                                                                                                                                                            |
| <a href="#">Activity: Puzzling Over Energy Issues</a> | Grade 4-7                      |                                                                                                                                                                                                                                            |
| <a href="#">Activity: Ride, Roll and Stroll</a>       | Grade 4-7                      |                                                                                                                                                                                                                                            |
| <a href="#">Activity: Speak for the Trees</a>         | A. Stem Skills and Connections | A1. STEM Investigation and Communication Skills – Use a scientific research process, a scientific experimentation process, and an engineering design process to conduct investigations, following appropriate health and safety procedures |
| <a href="#">Activity: Taking the Lead</a>             | Grade 4-7                      |                                                                                                                                                                                                                                            |
| <a href="#">Activity: Walk a Mile</a>                 | Grade 4-7                      |                                                                                                                                                                                                                                            |