

Program: Energy Revealed

Grade 3 – Ontario Science and Technology Curriculum Connections



Activity Name	Organizing Idea	Learning Outcome
<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>	N/A	
<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>	Grade 7-12	
<a href="#">Activity: Can You Observe How You Conserve?</a>	Grade 4-12	
<a href="#">Activity: Energy Hogs</a>	Grade 4-12	
<a href="#">Activity: Extra Energy Investigation</a>	Grade 4-12	
<a href="#">Activity: How Smart is Your Smart Board?</a>	Grade 7-12	
<a href="#">Activity: Imagination Station</a>	Grade 4-12	
<a href="#">Activity: Small Appliance Energy Reliance</a>	Grade 4-12	
<a href="#">Activity: Start Me Up!</a>	Grade 4-12	
<a href="#">Activity: Take a Look</a>	Grade 4-6	
<a href="#">Activity: Total Energy vs Total Cost</a>	Grade 7-12	
<a href="#">Activity: Understanding Energy Efficiency in Your School</a>	Grade 7-12	
<a href="#">Activity: Community Walk</a>	Grade 4-12	
<a href="#">Activity: School Energy Audit</a>	Grade 7-12	

<a href="#">Activity: Energy Efficient Lighting</a>	Grade 4-7	
<a href="#">Activity: Find the Phantom Load</a>	Grade 4-12	
<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>	Grade 4-12	
<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>	Grade 7-12	
<a href="#">Activity: Taking the Lead</a>	Grade 4-7	
<a href="#">Activity: Walk a Mile</a>	Grade 4-7	

Program: Energy Revealed

Grade 4 – Ontario Science and Technology Curriculum Connections



Activity Name	Organizing Idea	Learning Outcome
<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>	N/A	
<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>	Grade 7-12	
<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
<a href="#">Activity: How Smart is Your Smart Board?</a>	Grade 7-12	
<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>	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: Total Energy vs Total Cost</a>	Grade 7-12	
<a href="#">Activity: Understanding Energy Efficiency in Your School</a>	Grade 7-12	
<a href="#">Activity: Community Walk</a>	N/A	
<a href="#">Activity: School Energy Audit</a>	Grade 7-12	
<a href="#">Activity: Energy Efficient Lighting</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: 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
<a href="#">Activity: Back to the Future</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: Changing Our Ways</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: Exploring Our Energy Ethics</a>	N/A	
<a href="#">Activity: Once Upon a Bike</a>	N/A	
<a href="#">Activity: Puzzling Over Energy Issues</a>	N/A	

<a href="#">Activity: Ride, Roll and Stroll</a>	N/A	
<a href="#">Activity: Speak for the Trees</a>	Grade 7-12	
<a href="#">Activity: Taking the Lead</a>	N/A	
<a href="#">Activity: Walk a Mile</a>	N/A	

Program: Energy Revealed

Grade 5 – Ontario Science and Technology Curriculum Connections



Activity Name	Organizing Idea	Learning Outcome
<a href="#">Activity: Knowing Energy: Stair Climb</a>	E. Earth and Space Systems: Conservation of Energy and Resources	E1. Relating Science and Technology to Our Changing World – Assess effects of energy and resource use on society and the environment, and suggest options for conserving energy and resources
		E2. Exploring and Understanding Concepts – Demonstrate an understanding of the conservation of energy, and the forms, sources, and uses of energy and resources
<a href="#">Activity: Knowing Energy: Tea at Home</a>	E. Earth and Space Systems: Conservation of Energy and Resources	E1. Relating Science and Technology to Our Changing World – Assess effects of energy and resource use on society and the environment, and suggest options for conserving energy and resources
		E2. Exploring and Understanding Concepts – Demonstrate an understanding of the conservation of energy, and the forms, sources, and uses of energy and resources
<a href="#">Activity: Knowing Energy: Race to a kWh</a>	E. Earth and Space Systems: Conservation of Energy and Resources	E1. Relating Science and Technology to Our Changing World – Assess effects of energy and resource use on society and the environment, and suggest options for conserving energy and resources
		E2. Exploring and Understanding Concepts – Demonstrate an understanding of the conservation of energy, and the forms, sources, and uses of energy and resources
<a href="#">Activity: Knowing Energy: How Intense is Your Electricity Usage?</a>	E. Earth and Space Systems: Conservation of Energy and Resources	E1. Relating Science and Technology to Our Changing World – Assess effects of energy and resource use on society and the environment, and suggest options for conserving energy and resources
		E2. Exploring and Understanding Concepts – Demonstrate an understanding of the conservation of energy, and the forms, sources, and uses of energy and resources

<a href="#">Activity: Knowing Energy: The Electricity Grid</a>	E. Earth and Space Systems: Conservation of Energy and Resources	E1. Relating Science and Technology to Our Changing World – Assess effects of energy and resource use on society and the environment, and suggest options for conserving energy and resources
		E2. Exploring and Understanding Concepts – Demonstrate an understanding of the conservation of energy, and the forms, sources, and uses of energy and resources
<a href="#">Activity: Knowing Energy: Renewables</a>	E. Earth and Space Systems: Conservation of Energy and Resources	E1. Relating Science and Technology to Our Changing World – Assess effects of energy and resource use on society and the environment, and suggest options for conserving energy and resources
		E2. Exploring and Understanding Concepts – Demonstrate an understanding of the conservation of energy, and the forms, sources, and uses of energy and resources
<a href="#">Activity: Knowing Energy: The Big Picture</a>	E. Earth and Space Systems: Conservation of Energy and Resources	E1. Relating Science and Technology to Our Changing World – Assess effects of energy and resource use on society and the environment, and suggest options for conserving energy and resources
		E2. Exploring and Understanding Concepts – Demonstrate an understanding of the conservation of energy, and the forms, sources, and uses of energy and resources
<a href="#">Activity: All About the Baseline</a>	<b>Grade 7-12</b>	
<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
	E. Earth and Space Systems: Conservation of Energy and Resources	E1. Relating Science and Technology to Our Changing World – Assess effects of energy and resource use on society and the environment, and suggest options for conserving energy and resources
		E2. Exploring and Understanding Concepts – Demonstrate an understanding of the conservation of energy, and the forms, sources, and uses of energy and resources
<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
	E. Earth and Space Systems: Conservation of Energy and Resources	E2. Exploring and Understanding Concepts – Demonstrate an understanding of the conservation of energy, and the forms, sources, and uses of energy and resources



<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
	E. Earth and Space Systems: Conservation of Energy and Resources	E2. Exploring and Understanding Concepts – Demonstrate an understanding of the conservation of energy, and the forms, sources, and uses of energy and resources
<a href="#">Activity: How Smart is Your Smart Board?</a>	<b>Grade 7-12</b>	
<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
	E. Earth and Space Systems: Conservation of Energy and Resources	E2. Exploring and Understanding Concepts – Demonstrate an understanding of the conservation of energy, and the forms, sources, and uses of energy and resources
<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
	E. Earth and Space Systems: Conservation of Energy and Resources	E2. Exploring and Understanding Concepts – Demonstrate an understanding of the conservation of energy, and the forms, sources, and uses of energy and resources
<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
	E. Earth and Space Systems: Conservation of Energy and Resources	E2. Exploring and Understanding Concepts – Demonstrate an understanding of the conservation of energy, and the forms, sources, and uses of energy and resources
<a href="#">Activity: Take a Look</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
	E. Earth and Space Systems: Conservation of Energy and Resources	E2. Exploring and Understanding Concepts – Demonstrate an understanding of the conservation of energy, and the forms, sources, and uses of energy and resources
<a href="#">Activity: Total Energy vs Total Cost</a>	<b>Grade 7-12</b>	
<a href="#">Activity: Understanding Energy Efficiency in Your School</a>	<b>Grade 7-12</b>	



<a href="#">Activity: Community Walk</a>	E. Earth and Space Systems: Conservation of Energy and Resources	E2. Exploring and Understanding Concepts – Demonstrate an understanding of the conservation of energy, and the forms, sources, and uses of energy and resources
<a href="#">Activity: School Energy Audit</a>	<b>Grade 7-12</b>	
<a href="#">Activity: Energy Efficient Lighting</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
	E. Earth and Space Systems: Conservation of Energy and Resources	E1. Relating Science and Technology to Our Changing World – Assess effects of energy and resource use on society and the environment, and suggest options for conserving energy and resources
		E2. Exploring and Understanding Concepts – Demonstrate an understanding of the conservation of energy, and the forms, sources, and uses of energy and resources
<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
	E. Earth and Space Systems: Conservation of Energy and Resources	E2. Exploring and Understanding Concepts – Demonstrate an understanding of the conservation of energy, and the forms, sources, and uses of energy and resources
<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
	E. Earth and Space Systems: Conservation of Energy and Resources	E1. Relating Science and Technology to Our Changing World – Assess effects of energy and resource use on society and the environment, and suggest options for conserving energy and resources
		E2. Exploring and Understanding Concepts – Demonstrate an understanding of the conservation of energy, and the forms, sources, and uses of energy and resources
<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
	E. Earth and Space Systems: Conservation of Energy and Resources	E2. Exploring and Understanding Concepts – Demonstrate an understanding of the conservation of energy, and the forms, sources, and uses of energy and resources

<a href="#">Activity: Back to the Future</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
	E. Earth and Space Systems: Conservation of Energy and Resources	E2. Exploring and Understanding Concepts – Demonstrate an understanding of the conservation of energy, and the forms, sources, and uses of energy and resources
<a href="#">Activity: Changing Our Ways</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
	E. Earth and Space Systems: Conservation of Energy and Resources	E1. Relating Science and Technology to Our Changing World – Assess effects of energy and resource use on society and the environment, and suggest options for conserving energy and resources
		E2. Exploring and Understanding Concepts – Demonstrate an understanding of the conservation of energy, and the forms, sources, and uses of energy and resources
<a href="#">Activity: Exploring Our Energy Ethics</a>	E. Earth and Space Systems: Conservation of Energy and Resources	E1. Relating Science and Technology to Our Changing World – Assess effects of energy and resource use on society and the environment, and suggest options for conserving energy and resources
		E2. Exploring and Understanding Concepts – Demonstrate an understanding of the conservation of energy, and the forms, sources, and uses of energy and resources
<a href="#">Activity: Once Upon a Bike</a>		<b>N/A</b>
<a href="#">Activity: Puzzling Over Energy Issues</a>	E. Earth and Space Systems: Conservation of Energy and Resources	E2. Exploring and Understanding Concepts – Demonstrate an understanding of the conservation of energy, and the forms, sources, and uses of energy and resources
<a href="#">Activity: Ride, Roll and Stroll</a>	E. Earth and Space Systems: Conservation of Energy and Resources	E1. Relating Science and Technology to Our Changing World – Assess effects of energy and resource use on society and the environment, and suggest options for conserving energy and resources
		E2. Exploring and Understanding Concepts – Demonstrate an understanding of the conservation of energy, and the forms, sources, and uses of energy and resources
<a href="#">Activity: Speak for the Trees</a>	<b>Grade 7-12</b>	

<a href="#">Activity: Taking the Lead</a>	E. Earth and Space Systems: Conservation of Energy and Resources	E1. Relating Science and Technology to Our Changing World – Assess effects of energy and resource use on society and the environment, and suggest options for conserving energy and resources
		E2. Exploring and Understanding Concepts – Demonstrate an understanding of the conservation of energy, and the forms, sources, and uses of energy and resources
<a href="#">Activity: Walk a Mile</a>	E. Earth and Space Systems: Conservation of Energy and Resources	E2. Exploring and Understanding Concepts – Demonstrate an understanding of the conservation of energy, and the forms, sources, and uses of energy and resources

Program: Energy Revealed

Grade 6 – Ontario Science and Technology Curriculum Connections



Activity Name	Organizing Idea	Learning Outcome
<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>	C. Matter and Energy: Electrical Phenomena, Energy, and Devices	C1. Relating Science and Technology to Our Changing World – Evaluate the impact of the use and generation of electrical energy on society and the environment, and suggest ways to use electrical energy responsibly
		C2. Exploring and Understanding Concepts – Demonstrate an understanding of the principles of electrical energy and its transformation into and from other forms of energy
<a href="#">Activity: Knowing Energy: The Electricity Grid</a>	C. Matter and Energy: Electrical Phenomena, Energy, and Devices	C1. Relating Science and Technology to Our Changing World – Evaluate the impact of the use and generation of electrical energy on society and the environment, and suggest ways to use electrical energy responsibly
		C2. Exploring and Understanding Concepts – Demonstrate an understanding of the principles of electrical energy and its transformation into and from other forms of energy
<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>	Grade 7-12	
<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
	C. Matter and Energy: Electrical Phenomena, Energy, and Devices	C1. Relating Science and Technology to Our Changing World – Evaluate the impact of the use and generation of electrical energy on society and the environment, and suggest ways to use electrical energy responsibly

<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
	C. Matter and Energy: Electrical Phenomena, Energy, and Devices	C1. Relating Science and Technology to Our Changing World – Evaluate the impact of the use and generation of electrical energy on society and the environment, and suggest ways to use electrical energy responsibly
<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
	C. Matter and Energy: Electrical Phenomena, Energy, and Devices	C1. Relating Science and Technology to Our Changing World – Evaluate the impact of the use and generation of electrical energy on society and the environment, and suggest ways to use electrical energy responsibly
<a href="#">Activity: How Smart is Your Smart Board?</a>	<b>Grade 7-12</b>	
<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
	C. Matter and Energy: Electrical Phenomena, Energy, and Devices	C1. Relating Science and Technology to Our Changing World – Evaluate the impact of the use and generation of electrical energy on society and the environment, and suggest ways to use electrical energy responsibly
<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
	C. Matter and Energy: Electrical Phenomena, Energy, and Devices	C1. Relating Science and Technology to Our Changing World – Evaluate the impact of the use and generation of electrical energy on society and the environment, and suggest ways to use electrical energy responsibly
<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
	C. Matter and Energy: Electrical Phenomena, Energy, and Devices	C1. Relating Science and Technology to Our Changing World – Evaluate the impact of the use and generation of electrical energy on society and the environment, and suggest ways to use electrical energy responsibly



<a href="#">Activity: Take a Look</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
	C. Matter and Energy: Electrical Phenomena, Energy, and Devices	C1. Relating Science and Technology to Our Changing World – Evaluate the impact of the use and generation of electrical energy on society and the environment, and suggest ways to use electrical energy responsibly
<a href="#">Activity: Total Energy vs Total Cost</a>	Grade 7-12	
<a href="#">Activity: Understanding Energy Efficiency in Your School</a>	Grade 7-12	
<a href="#">Activity: Community Walk</a>	C. Matter and Energy: Electrical Phenomena, Energy, and Devices	C1. Relating Science and Technology to Our Changing World – Evaluate the impact of the use and generation of electrical energy on society and the environment, and suggest ways to use electrical energy responsibly
<a href="#">Activity: School Energy Audit</a>	Grade 7-12	
<a href="#">Activity: Energy Efficient Lighting</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
	C. Matter and Energy: Electrical Phenomena, Energy, and Devices	C1. Relating Science and Technology to Our Changing World – Evaluate the impact of the use and generation of electrical energy on society and the environment, and suggest ways to use electrical energy responsibly
<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
	C. Matter and Energy: Electrical Phenomena, Energy, and Devices	C1. Relating Science and Technology to Our Changing World – Evaluate the impact of the use and generation of electrical energy on society and the environment, and suggest ways to use electrical energy responsibly
<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
	C. Matter and Energy: Electrical Phenomena, Energy, and Devices	C1. Relating Science and Technology to Our Changing World – Evaluate the impact of the use and generation of electrical energy on society and the environment, and suggest ways to use electrical energy responsibly



<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
	C. Matter and Energy: Electrical Phenomena, Energy, and Devices	C1. Relating Science and Technology to Our Changing World – Evaluate the impact of the use and generation of electrical energy on society and the environment, and suggest ways to use electrical energy responsibly
<a href="#">Activity: Back to the Future</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
	C. Matter and Energy: Electrical Phenomena, Energy, and Devices	C1. Relating Science and Technology to Our Changing World – Evaluate the impact of the use and generation of electrical energy on society and the environment, and suggest ways to use electrical energy responsibly
<a href="#">Activity: Changing Our Ways</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 27: Exploring Our Energy Ethics</a>	N/A	
<a href="#">Activity: Once Upon a Bike</a>	N/A	
<a href="#">Activity: Puzzling Over Energy Issues</a>	N/A	
<a href="#">Activity: Ride, Roll and Stroll</a>	N/A	
<a href="#">Activity: Speak for the Trees</a>	Grade 7-12	
<a href="#">Activity: Taking the Lead</a>	N/A	
<a href="#">Activity: Walk a Mile</a>	N/A	

Program: Energy Revealed

Grade 7 – Ontario Science and Technology Curriculum Connections



Activity Name	Organizing Idea	Learning Outcome
<a href="#">Activity: Knowing Energy: Stair Climb</a>	N/A	
<a href="#">Activity: Knowing Energy: Tea at Home</a>	E. Earth and Space Systems: Heat in the Environment	E2. Exploring and Understanding Concepts – Demonstrate an understanding of heat as a form of energy that is associated with the movement of particles and is essential for many natural processes within Earth’s systems
<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>	N/A	
<a href="#">Activity: Knowing Energy: Renewables</a>	E. Earth and Space Systems: Heat in the Environment	E1. Relating Science and Technology to Our Changing World – Assess the benefits of technologies that reduce heat loss, and analyse various social and environmental impacts of the use of energy from renewable and non-renewable sources
<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
<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>	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
	B. Life Systems: Interactions in the Environment	B1. Relating Science and Technology to Our Changing World – Assess the impact of human activities and technologies on the environment, and analyse ways to mitigate negative impacts and contribute to environmental sustainability
<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="#"><u>Activity: Home Energy Audit</u></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
	B. Life Systems: Interactions in the Environment	B1. Relating Science and Technology to Our Changing World – Assess the impact of human activities and technologies on the environment, and analyse ways to mitigate negative impacts and contribute to environmental sustainability
	E. Earth and Space Systems: Heat in the Environment	E1. Relating Science and Technology to Our Changing World – Assess the benefits of technologies that reduce heat loss, and analyse various social and environmental impacts of the use of energy from renewable and non-renewable sources
<a href="#"><u>Activity: Watchers and Seekers</u></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="#"><u>Activity: Back to the Future</u></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="#"><u>Activity: Changing Our Ways</u></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
	B. Life Systems: Interactions in the Environment	B1. Relating Science and Technology to Our Changing World – Assess the impact of human activities and technologies on the environment, and analyse ways to mitigate negative impacts and contribute to environmental sustainability
<a href="#"><u>Activity: Exploring Our Energy Ethics</u></a>	N/A	
<a href="#"><u>Activity: Once Upon a Bike</u></a>	N/A	
<a href="#"><u>Activity: Puzzling Over Energy Issues</u></a>	N/A	
<a href="#"><u>Activity: Ride, Roll and Stroll</u></a>	N/A	
<a href="#"><u>Activity: Speak for the Trees</u></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
	B. Life Systems: Interactions in the Environment	B1. Relating Science and Technology to Our Changing World – Assess the impact of human activities and technologies on the environment, and analyse ways to mitigate negative impacts and contribute to environmental sustainability

<a href="#">Activity: Taking the Lead</a>	B. Life Systems: Interactions in the Environment	B1. Relating Science and Technology to Our Changing World – Assess the impact of human activities and technologies on the environment, and analyse ways to mitigate negative impacts and contribute to environmental sustainability
<a href="#">Activity: Walk a Mile</a>	B. Life Systems: Interactions in the Environment	B1. Relating Science and Technology to Our Changing World – Assess the impact of human activities and technologies on the environment, and analyse ways to mitigate negative impacts and contribute to environmental sustainability

Program: Energy Revealed

Grade 8 – Ontario Science and Technology Curriculum Connections



Activity Name	Organizing Idea	Learning Outcome
<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



<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

<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	