Program: Energy Revealed

Grade 4 - Alberta Science Curriculum Connections

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Activity Name	Organizing Idea	Learning Outcome
Activity: Knowing Energy: Stair Climb	Energy	Students investigate how forces can act on objects without contact.
	Scientific Methods	Students investigate evidence and reflect on its role in science.
Activity: Knowing Energy: Tea at Home	Energy	Students investigate how forces can act on objects without contact.
	Scientific Methods	Students investigate evidence and reflect on its role in science.
Activity: Knowing Energy: Race to a kWh	Energy	Students investigate how forces can act on objects without contact.
	Scientific Methods	Students investigate evidence and reflect on its role in science.
Activity: Knowing Energy: How Intense is Your Electricity Usage?	Energy	Students investigate how forces can act on objects without contact.
	Scientific Methods	Students investigate evidence and reflect on its role in science.
Activity: Knowing Energy: The Electricity Grid	Energy	Students investigate how forces can act on objects without contact.
	Scientific Methods	Students investigate evidence and reflect on its role in science.
Activity: Knowing Energy: Renewables	Energy	Students investigate how forces can act on objects without contact.
	Earth Systems	Students investigate the systems of Earth and reflect on how their interconnections sustain life.
	Scientific Methods	Students investigate evidence and reflect on its role in science.
Activity: Knowing Energy: The Big Picture	Energy	Students investigate how forces can act on objects without contact.
	Scientific Methods	Students investigate evidence and reflect on its role in science.
Activity: All About the Baseline	**Grade 7-12**	
Activity: Can You Observe How You Conserve?	Energy	Students investigate how forces can act on objects without contact.
	Earth Systems	Students investigate the systems of Earth and reflect on how their interconnections sustain life.
	Scientific Methods	Students investigate evidence and reflect on its role in science.

Activity: Energy Hogs	Energy	Students investigate how forces can act on objects without contact.
	Scientific Methods	Students investigate evidence and reflect on its role in science.
Activity: Extra Energy Investigation	Energy	Students investigate how forces can act on objects without contact.
	Scientific Methods	Students investigate evidence and reflect on its role in science.
Activity: How Smart is Your Smart Board?	**Grade 7-12**	
Activity: Imagination Station	Energy	Students investigate how forces can act on objects without contact.
	Scientific Methods	Students investigate evidence and reflect on its role in science.
Activity: Small Appliance Energy Reliance	Energy	Students investigate how forces can act on objects without contact.
	Earth Systems	Students investigate the systems of Earth and reflect on how their interconnections sustain life.
	Scientific Methods	Students investigate evidence and reflect on its role in science.
Activity: Start Me Up!	Energy	Students investigate how forces can act on objects without contact.
	Scientific Methods	Students investigate evidence and reflect on its role in science.
Activity: Take a Look	Energy	Students investigate how forces can act on objects without contact.
	Scientific Methods	Students investigate evidence and reflect on its role in science.
Activity: Total Energy vs. Total Cost	**Grade 7-12**	
Activity: Understanding Energy Efficiency in Your School	**Grade 7-12**	
Activity: Community Walk	Energy	Students investigate how forces can act on objects without contact.
	Earth Systems	Students investigate the systems of Earth and reflect on how their interconnections sustain life.
	Scientific Methods	Students investigate evidence and reflect on its role in science.
Activity: School Energy Audit	**Grade 7-12**	
Activity: Energy Efficient Lighting	Energy	Students investigate how forces can act on objects without contact.
	Earth Systems	Students investigate the systems of Earth and reflect on how their interconnections sustain life.
	Scientific Methods	Students investigate evidence and reflect on its role in science.
Activity: Find the Phantom Load	Energy	Students investigate how forces can act on objects without contact.
	Scientific Methods	Students investigate evidence and reflect on its role in science.

Activity: Home Energy Audit	Energy	Students investigate how forces can act on objects without contact.
	Earth Systems	Students investigate the systems of Earth and reflect on how their interconnections sustain life.
	Scientific Methods	Students investigate evidence and reflect on its role in science.
Activity: Watchers and Seekers	Energy	Students investigate how forces can act on objects without contact.
	Computer Science	Students examine and apply design processes to meet needs.
	Scientific Methods	Students investigate evidence and reflect on its role in science.
Activity: Back to the Future	Energy	Students investigate how forces can act on objects without contact.
	Earth Systems	Students investigate the systems of Earth and reflect on how their interconnections sustain life.
	Scientific Methods	Students investigate evidence and reflect on its role in science.
Activity: Changing Our Ways	Energy	Students investigate how forces can act on objects without contact.
	Scientific Methods	Students investigate evidence and reflect on its role in science.
Activity: Exploring Our Energy Ethics	Energy	Students investigate how forces can act on objects without contact.
	Earth Systems	Students investigate the systems of Earth and reflect on how their interconnections sustain life.
	Scientific Methods	Students investigate evidence and reflect on its role in science.
Activity: Once Upon a Bike	Energy	Students investigate how forces can act on objects without contact.
	Scientific Methods	Students investigate evidence and reflect on its role in science.
Activity: Puzzling Over Energy Issues	Energy	Students investigate how forces can act on objects without contact.
	Earth Systems	Students investigate the systems of Earth and reflect on how their interconnections sustain life.
	Scientific Methods	Students investigate evidence and reflect on its role in science.
Activity: Ride, Roll and Stroll	Energy	Students investigate how forces can act on objects without contact.
	Earth Systems	Students investigate the systems of Earth and reflect on how their interconnections sustain life.
	Scientific Methods	Students investigate evidence and reflect on its role in science.
Activity: Speak for the Trees	**Grade 7-12**	
Activity: Taking the Lead	Energy	Students investigate how forces can act on objects without contact.
	Scientific Methods	Students investigate evidence and reflect on its role in science.

Activity: Walk a Mile	Energy	Students investigate how forces can act on objects without contact.
	Earth Systems	Students investigate the systems of Earth and reflect on how their interconnections sustain life.
	Scientific Methods	Students investigate evidence and reflect on its role in science.

Program: Energy Revealed	Grade 5 - Alberta Science Curriculum Connections	

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Activity Name	Organizing Idea	Learning Outcome
Activity: Knowing Energy: Stair Climb	Energy	Students investigate and compare how forces affect living things and objects in water and air.
	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: Knowing Energy: Tea at Home	Matter	Students investigate the particle model of matter in relation to the physical properties of solids, liquids, and gases.
	Energy	Students investigate and compare how forces affect living things and objects in water and air.
	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: Knowing Energy: Race to a kWh	Energy	Students investigate and compare how forces affect living things and objects in water and air.
	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: Knowing Energy: How Intense is Your Electricity Usage?	Energy	Students investigate and compare how forces affect living things and objects in water and air.
	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: Knowing Energy: The Electricity Grid	Energy	Students investigate and analyze various energy resources.
	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: Knowing Energy: Renewables	Energy	Students investigate and analyze various energy resources.
	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: Knowing Energy: The Big Picture	Energy	Students investigate and analyze various energy resources.
	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: All About the Baseline	**Grade 7-12**	
Activity: Can You Observe How You Can Conserve?	Energy	Students investigate and analyze various energy resources.
	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: Energy Hogs	Energy	Students investigate and analyze various energy resources.
	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.

Activity: Extra Energy Investigation	Energy	Students investigate and analyze various energy resources.
	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: How Smart is Your Smart Board?	**Grade 7-12**	
Activity: Imagination Station	Energy	Students investigate and analyze various energy resources.
	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: Small Appliance Energy Reliance	Energy	Students investigate and analyze various energy resources.
	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: Start Me Up!	Energy	Students investigate and analyze various energy resources.
	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: Take a Look	Energy	Students investigate and analyze various energy resources.
	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: Total Energy vs. Total Cost	**Grade 7-12**	
Activity: Understanding Energy Efficiency in Your School	**Grade 7-12**	
Activity: Community Walk	Energy	Students investigate and analyze various energy resources.
	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: School Energy Audit	**Grade 7-12**	
Activity: Energy Efficient Lighting	Energy	Students investigate and analyze various energy resources.
	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: Find the Phantom Load	Energy	Students investigate and analyze various energy resources.
	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: Home Energy Audit	Energy	Students investigate and analyze various energy resources.
	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: Watchers and Seekers	Energy	Students investigate and analyze various energy resources.
	Computer Science	Students apply design processes when creating artifacts that can be used by a human or machine to address a need.
	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.

Activity: Back to the Future	Energy	Students investigate and analyze various energy resources.
	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: Changing Our Ways	Energy	Students investigate and analyze various energy resources.
	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: Exploring Our Energy Ethics	Energy	Students investigate and analyze various energy resources.
	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: Once Upon a Bike	Energy	Students investigate and analyze various energy resources.
	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: Puzzling Over Energy Issues	Energy	Students investigate and analyze various energy resources.
	Earth Systems	Students analyze climate and connect it to weather conditions and agricultural practices.
	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: Ride, Roll and Stroll	Energy	Students investigate and analyze various energy resources.
	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: Speak for the Trees	**Grade 7-12**	
Activity: Taking the Lead	Energy	Students investigate and analyze various energy resources.
	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: Walk a Mile	Energy	Students investigate and analyze various energy resources.
	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.

Program: Energy Revealed

Grade 6 - Alberta Science Curriculum Connections

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Activity Name	Organizing Idea	Learning Outcome
Activity: Knowing Energy: Stair Climb	Energy	Students analyze forces and relate them to interactions between objects.
	Scientific Methods	Students investigate and describe the role of explanation in science.
Activity: Knowing Energy: Tea at Home	Matter	Students investigate how particles of matter behave when heated or cooled and analyze effects on solids, liquids, and gases.
	Energy	Students analyze forces and relate them to interactions between objects.
	Scientific Methods	Students investigate and describe the role of explanation in science.
Activity: Knowing Energy: Race to a kWh	Energy	Students analyze forces and relate them to interactions between objects.
	Scientific Methods	Students investigate and describe the role of explanation in science.
Activity: Knowing Energy: How Intense is Your Electricity Usage?	Energy	Students analyze forces and relate them to interactions between objects.
	Scientific Methods	Students investigate and describe the role of explanation in science.
Activity: Knowing Energy: The Electricity Grid	Energy	Students investigate energy resources and explain factors that influence their use.
	Scientific Methods	Students investigate and describe the role of explanation in science.
Activity: Knowing Energy: Renewables	Energy	Students investigate energy resources and explain factors that influence their use.
	Earth Systems	Students investigate climate, changes in climate, and the impact of climate change on Earth.
	Scientific Methods	Students investigate and describe the role of explanation in science.
Activity: Knowing Energy: The Big Picture	Energy	Students investigate energy resources and explain factors that influence their use.
	Scientific Methods	Students investigate and describe the role of explanation in science.
Activity: All About the Baseline	**Grade 7-12**	
Activity: Can You Observe How You Can Conserve?	Energy	Students investigate energy resources and explain factors that influence their use.
	Scientific Methods	Students investigate and describe the role of explanation in science.

Activity: Energy Hogs	Energy	Students investigate energy resources and explain factors that influence their use.
	Scientific Methods	Students investigate and describe the role of explanation in science.
Activity: Extra Energy Investigation	Energy	Students investigate energy resources and explain factors that influence their use.
	Scientific Methods	Students investigate and describe the role of explanation in science.
Activity: How Smart is Your Smart Board?	**Grade 7-12**	
Activity: Imagination Station	Energy	Students investigate energy resources and explain factors that influence their use.
	Scientific Methods	Students investigate and describe the role of explanation in science.
Activity: Small Appliance Energy Reliance	Energy	Students investigate energy resources and explain factors that influence their use.
	Scientific Methods	Students investigate and describe the role of explanation in science.
Activity: Start Me Up!	Energy	Students investigate energy resources and explain factors that influence their use.
	Scientific Methods	Students investigate and describe the role of explanation in science.
Activity: Take a Look	Energy	Students investigate energy resources and explain factors that influence their use.
	Scientific Methods	Students investigate and describe the role of explanation in science.
Activity: Total Energy vs. Total Cost	**Grade 7-12**	
Activity: Understanding Energy Efficiency in Your School	**Grade 7-12**	
Activity: Community Walk	Energy	Students investigate energy resources and explain factors that influence their use.
	Scientific Methods	Students investigate and describe the role of explanation in science.
Activity: School Energy Audit	**Grade 7-12**	
Activity: Energy Efficient Lighting	Energy	Students investigate energy resources and explain factors that influence their use.
	Scientific Methods	Students investigate and describe the role of explanation in science.
Activity: Find the Phantom Load	Energy	Students investigate energy resources and explain factors that influence their use.
	Scientific Methods	Students investigate and describe the role of explanation in science.
Activity: Home Energy Audit	Energy	Students investigate energy resources and explain factors that influence their use.
	Earth Systems	Students investigate climate, changes in climate, and the impact of climate change on Earth.
	Scientific Methods	Students investigate and describe the role of explanation in science.

Activity: Watchers and Seekers	Energy	Students investigate energy resources and explain factors that influence their use.
	Computer Science	Students examine abstraction in relation to design and coding and describe impacts of technologies.
	Scientific Methods	Students investigate and describe the role of explanation in science.
Activity: Back to the Future	Energy	Students investigate energy resources and explain factors that influence their use.
	Earth Systems	Students investigate climate, changes in climate, and the impact of climate change on Earth.
	Scientific Methods	Students investigate and describe the role of explanation in science.
Activity: Changing Our Ways	Energy	Students investigate energy resources and explain factors that influence their use.
	Scientific Methods	Students investigate and describe the role of explanation in science.
Activity: Exploring Our Energy Ethics	Energy	Students investigate energy resources and explain factors that influence their use.
	Earth Systems	Students investigate climate, changes in climate, and the impact of climate change on Earth.
	Scientific Methods	Students investigate and describe the role of explanation in science.
Activity: Once Upon a Bike	Energy	Students investigate energy resources and explain factors that influence their use.
	Scientific Methods	Students investigate and describe the role of explanation in science.
Activity: Puzzling Over Energy Issues	Energy	Students investigate energy resources and explain factors that influence their use.
	Earth Systems	Students investigate climate, changes in climate, and the impact of climate change on Earth.
	Scientific Methods	Students investigate and describe the role of explanation in science.
Activity: Ride, Roll and Stroll	Energy	Students investigate energy resources and explain factors that influence their use.
	Earth Systems	Students investigate climate, changes in climate, and the impact of climate change on Earth.
	Scientific Methods	Students investigate and describe the role of explanation in science.
Activity: Speak for the Trees	**Grade 7-12**	
Activity: Taking the Lead	Energy	Students investigate energy resources and explain factors that influence their use.
	Scientific Methods	Students investigate and describe the role of explanation in science.
Activity: Walk a Mile	Energy	Students investigate energy resources and explain factors that influence their use.
	Earth Systems	Students investigate climate, changes in climate, and the impact of climate change on Earth.
	Scientific Methods	Students investigate and describe the role of explanation in science.