Program: Energy Revealed

Grade 4 - Alberta Science Curriculum Connections



Activity Name	Organizing Idea	Learning Outcome
Activity: Knowing Energy: Stair Climb	Energy	Students investigate how forces can act on objects without contact.
Activity: Knowing Energy: Stair Climb	Scientific Methods	Students investigate evidence and reflect on its role in science.
Activity: Knowing Energy: Top at Home	Energy	Students investigate how forces can act on objects without contact.
Activity: Knowing Energy: Tea at Home	Scientific Methods	Students investigate evidence and reflect on its role in science.
Activity: Knowing Energy: Pace to a kWh	Energy	Students investigate how forces can act on objects without contact.
Activity: Knowing Energy: Race to a kWh	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.
Activity. Knowing Energy. How interise is four Electricity Osage:	Scientific Methods	Students investigate evidence and reflect on its role in science.
Activity: Knowing Energy: The Flectricity Grid	Energy	Students investigate how forces can act on objects without contact.
Activity: Knowing Energy: The Electricity Grid	Scientific Methods	Students investigate evidence and reflect on its role in science.
	Energy	Students investigate how forces can act on objects without contact.
Activity: Knowing Energy: Renewables	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 Rig Dicture	Energy	Students investigate how forces can act on objects without contact.
Activity: Knowing Energy: The Big Picture	Scientific Methods	Students investigate evidence and reflect on its role in science.
Activity: All About the Baseline	Grade 7-12	
	Energy	Students investigate how forces can act on objects without contact.
Activity: Can You Observe How You Conserve?	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.
Activity: Elici 8y 11083	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.
Activity: Extra Energy Investigation	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.
Activity: Imagination Station	Scientific Methods	Students investigate evidence and reflect on its role in science.
	Energy	Students investigate how forces can act on objects without contact.
Activity: Small Appliance Energy Reliance	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 Mollel	Energy	Students investigate how forces can act on objects without contact.
Activity: Start Me Up!	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.
Activity: Take a Look	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	
	Energy	Students investigate how forces can act on objects without contact.
Activity: Community Walk	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	
	Energy	Students investigate how forces can act on objects without contact.
Activity: Energy Efficient Lighting	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 Phantem Load	Energy	Students investigate how forces can act on objects without contact.
Activity: Find the Phantom Load	Scientific Methods	Students investigate evidence and reflect on its role in science.

	Energy	Students investigate how forces can act on objects without contact.
Activity: Home Energy Audit	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.
	Energy	Students investigate how forces can act on objects without contact.
Activity: Watchers and Seekers	Computer Science	Students examine and apply design processes to meet needs.
	Scientific Methods	Students investigate evidence and reflect on its role in science.
	Energy	Students investigate how forces can act on objects without contact.
Activity: Back to the Future	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.
Activity: Changing Our Ways	Scientific Methods	Students investigate evidence and reflect on its role in science.
	Energy	Students investigate how forces can act on objects without contact.
Activity: Exploring Our Energy Ethics	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 Onco Unon a Pile	Energy	Students investigate how forces can act on objects without contact.
Activity: Once Upon a Bike	Scientific Methods	Students investigate evidence and reflect on its role in science.
	Energy	Students investigate how forces can act on objects without contact.
Activity: Puzzling Over Energy Issues	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.
	Energy	Students investigate how forces can act on objects without contact.
Activity: Ride, Roll and Stroll	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 Load	Energy	Students investigate how forces can act on objects without contact.
Activity: Taking the Lead	Scientific Methods	Students investigate evidence and reflect on its role in science.

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

Program: Energy Revealed

Grade 5 - Alberta Science Curriculum Connections



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.
Activity: Knowing Energy: Stair Climb	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
	Matter	Students investigate the particle model of matter in relation to the physical properties of solids, liquids, and gases.
Activity: Knowing Energy: Tea at Home	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: Pace to a kWh	Energy	Students investigate and compare how forces affect living things and objects in water and air.
Activity: Knowing Energy: Race to a kWh	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: Knowing Energy: How Intense is Your Floatricity Usage?	Energy	Students investigate and compare how forces affect living things and objects in water and air.
Activity: Knowing Energy: How Intense is Your Electricity Usage?	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.
Activity: Knowing Energy: The Electricity Grid	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: Knowing Energy: Penewahles	Energy	Students investigate and analyze various energy resources.
Activity: Knowing Energy: Renewables	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: Knowing Energy: The Big Dicture	Energy	Students investigate and analyze various energy resources.
Activity: Knowing Energy: The Big Picture	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.
Activity: Can You Observe How You Can Conserve?	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.
ACTIVITY. EXTIA ETIET BY TITVESTIGATION	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.
Activity: Imagination Station	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: Small Appliance Energy Poliance	Energy	Students investigate and analyze various energy resources.
<u>Activity: Small Appliance Energy Reliance</u>	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: Start Mo Uni	Energy	Students investigate and analyze various energy resources.
Activity: Start Me Up!	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.
ACTIVITY. Take a LOOK	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.
Activity: Community Walk	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.
Activity: Energy Efficient Lighting	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.
Activity: Find the Phantom Load	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.
Activity: Home Energy Audit	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
	Energy	Students investigate and analyze various energy resources.
Activity: Watchers and Seekers	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.
	Energy	Students investigate and analyze various energy resources.
Activity: Changing Our Ways	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity Evaloring Our Engrav Ethics	Energy	Students investigate and analyze various energy resources.
Activity: Exploring Our Energy Ethics	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity Open Upon a Bile	Energy	Students investigate and analyze various energy resources.
Activity: Once Upon a Bike	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
	Energy	Students investigate and analyze various energy resources.
Activity: Puzzling Over Energy Issues	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.
	Energy	Students investigate and analyze various energy resources.
Activity: Ride, Roll and Stroll	Scientific Methods	Students investigate how evidence is gathered and explain the importance of ethics in science.
Activity: Speak for the Trees	Grade 7-12	
	Energy	Students investigate and analyze various energy resources.
Activity: Taking the Lead	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



Activity Name	Organizing Idea	Learning Outcome
Activity: Knowing Energy: Stair Climb	Energy	Students analyze forces and relate them to interactions between objects.
Activity: Knowing Energy: Stair Climb	Scientific Methods	Students investigate and describe the role of explanation in science.
	Matter	Students investigate how particles of matter behave when heated or cooled and analyze effects on solids, liquids, and gases.
Activity: Knowing Energy: Tea at Home	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: Pace to a kWh	Energy	Students analyze forces and relate them to interactions between objects.
Activity: Knowing Energy: Race to a kWh	Scientific Methods	Students investigate and describe the role of explanation in science.
Activity: Knowing Energy: How Intense is Your Flostricity Usage?	Energy	Students analyze forces and relate them to interactions between objects.
Activity: Knowing Energy: How Intense is Your Electricity Usage?	Scientific Methods	Students investigate and describe the role of explanation in science.
Activity: Knowing Energy: The Electricity Crid	Energy	Students investigate energy resources and explain factors that influence their use.
Activity: Knowing Energy: The Electricity Grid	Scientific Methods	Students investigate and describe the role of explanation in science.
	Energy	Students investigate energy resources and explain factors that influence their use.
Activity: Knowing Energy: Renewables	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 Rig Ricture	Energy	Students investigate energy resources and explain factors that influence their use.
Activity: Knowing Energy: The Big Picture	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 Concerve?	Energy	Students investigate energy resources and explain factors that influence their use.
<u>ctivity: Can You Observe How You Can Conserve?</u>	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.
Activity: Energy Hogs	Scientific Methods	Students investigate and describe the role of explanation in science.
Activity: Eytra Enormy Investigation	Energy	Students investigate energy resources and explain factors that influence their use.
Activity: Extra Energy Investigation	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.
Activity: Imagination Station	Scientific Methods	Students investigate and describe the role of explanation in science.
Activity: Small Appliance Energy Poliance	Energy	Students investigate energy resources and explain factors that influence their use.
Activity: Small Appliance Energy Reliance	Scientific Methods	Students investigate and describe the role of explanation in science.
Activity: Start Mo Lini	Energy	Students investigate energy resources and explain factors that influence their use.
Activity: Start Me Up!	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.
Activity: Take a Look	Scientific Methods	Students investigate and describe the role of explanation in science.
Activity: Total Energy vs. Total Cost	Grade 7-12	
Activity: Total Energy vs. Total Cost Activity: Understanding Energy Efficiency in Your School	Grade 7-12 Grade 7-12	
Activity: Understanding Energy Efficiency in Your School		Students investigate energy resources and explain factors that influence their use.
	Grade 7-12	Students investigate energy resources and explain factors that influence their use. Students investigate and describe the role of explanation in science.
Activity: Understanding Energy Efficiency in Your School	Grade 7-12 Energy	
Activity: Understanding Energy Efficiency in Your School Activity: Community Walk Activity: School Energy Audit	Grade 7-12 Energy Scientific Methods	
Activity: Understanding Energy Efficiency in Your School Activity: Community Walk	Grade 7-12 Energy Scientific Methods Grade 7-12	Students investigate and describe the role of explanation in science.
Activity: Understanding Energy Efficiency in Your School Activity: Community Walk Activity: School Energy Audit Activity: Energy Efficient Lighting	Grade 7-12 Energy Scientific Methods Grade 7-12 Energy	Students investigate and describe the role of explanation in science. Students investigate energy resources and explain factors that influence their use.
Activity: Understanding Energy Efficiency in Your School Activity: Community Walk Activity: School Energy Audit	Grade 7-12 Energy Scientific Methods Grade 7-12 Energy Scientific Methods	Students investigate and describe the role of explanation in science. Students investigate energy resources and explain factors that influence their use. Students investigate and describe the role of explanation in science.
Activity: Understanding Energy Efficiency in Your School Activity: Community Walk Activity: School Energy Audit Activity: Energy Efficient Lighting	Grade 7-12 Energy Scientific Methods Grade 7-12 Energy Scientific Methods Energy	Students investigate and describe the role of explanation in science. Students investigate energy resources and explain factors that influence their use. Students investigate and describe the role of explanation in science. Students investigate energy resources and explain factors that influence their use.
Activity: Understanding Energy Efficiency in Your School Activity: Community Walk Activity: School Energy Audit Activity: Energy Efficient Lighting	Grade 7-12 Energy Scientific Methods Grade 7-12 Energy Scientific Methods Energy Scientific Methods	Students investigate and describe the role of explanation in science. Students investigate energy resources and explain factors that influence their use. Students investigate and describe the role of explanation in science. Students investigate energy resources and explain factors that influence their use. Students investigate and describe the role of explanation in science.
Activity: Understanding Energy Efficiency in Your School Activity: Community Walk Activity: School Energy Audit Activity: Energy Efficient Lighting Activity: Find the Phantom Load	Grade 7-12 Energy Scientific Methods Grade 7-12 Energy Scientific Methods Energy Scientific Methods Energy Scientific Methods Energy	Students investigate and describe the role of explanation in science. Students investigate energy resources and explain factors that influence their use. Students investigate and describe the role of explanation in science. Students investigate energy resources and explain factors that influence their use. Students investigate and describe the role of explanation in science. Students investigate and describe the role of explanation in science. Students investigate energy resources and explain factors that influence their use.

	Energy	Students investigate energy resources and explain factors that influence their use.
Activity: Watchers and Seekers	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.
	Energy	Students investigate energy resources and explain factors that influence their use.
Activity: Back to the Future	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.
Activity: Changing Our Ways	Scientific Methods	Students investigate and describe the role of explanation in science.
	Energy	Students investigate energy resources and explain factors that influence their use.
Activity: Exploring Our Energy Ethics	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: Onco Unon a Piko	Energy	Students investigate energy resources and explain factors that influence their use.
Activity: Once Upon a Bike	Scientific Methods	Students investigate and describe the role of explanation in science.
	Energy	Students investigate energy resources and explain factors that influence their use.
Activity: Puzzling Over Energy Issues	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.
	Energy	Students investigate energy resources and explain factors that influence their use.
Activity: Ride, Roll and Stroll	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.
Activity: Taking the Lead	Scientific Methods	Students investigate and describe the role of explanation in science.
	Energy	Students investigate energy resources and explain factors that influence their use.
Activity: Walk a Mile	Earth Systems	Students investigate climate, changes in climate, and the impact of climate change on Earth.