

Program: Flood:ED

Grade 5 - Alberta Science Curriculum Connections



Activity Name	Organizing Idea	Learning Outcome
<a href="#">Activity: Hot Spot Investigators</a>	Energy	Students investigate and compare how forces affect living things and objects in water and air.
	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.
<a href="#">Activity: School Greening: Investigating Simulator Solutions</a>	Grade 6-12	
<a href="#">Activity: Flood Risk Management Awareness</a>	Energy	Students investigate and compare how forces affect living things and objects in water and air.
	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.
<a href="#">Activity: Flood:ED School Greening Simulator</a>	Grade 6-12	
<a href="#">Activity: Flooding Mapping Tour</a>	Energy	Students investigate and compare how forces affect living things and objects in water and air.
	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.
<a href="#">Activity: Flooding and Climate Change</a>	Energy	Students investigate and compare how forces affect living things and objects in water and air.
	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.
<a href="#">Activity: Climate Change in My Watershed Inquiry</a>	Grade 9-12	
<a href="#">Activity: Extreme Weather Inquiry</a>	Grade 9-12	
<a href="#">Activity: Runoff Footprint</a>	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.
	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.

<a href="#">Activity: Understand Flooding</a>	Energy	Students investigate and compare how forces affect living things and objects in water and air.
	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.
<a href="#">Activity: What are Floodplains and Watersheds?</a>	Energy	Students investigate and compare how forces affect living things and objects in water and air.
	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.
<a href="#">Activity: Flood Resilience Plan for Your School</a>	Energy	Students investigate and compare how forces affect living things and objects in water and air.
	Earth Systems	Students analyze climate and connect it to weather conditions and agricultural practices.
<a href="#">Activity: Preparing for Flood Resilience</a>	Energy	Students investigate and compare how forces affect living things and objects in water and air.
	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.
<a href="#">Activity: Take Action: Adopt a Drain Campaign</a>	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.
<a href="#">Activity: Take Action: Build a Rain Garden</a>	Grade 8-12	
<a href="#">Activity: Take Action: Flood Protect Your Home</a>	Grade 8-12	
<a href="#">Activity: Chasse Au Trésor</a>	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.
<a href="#">Activity: Take Action: Home Flood Protector Scavenger Hunt</a>	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.
<a href="#">Activity: Take Action: Install Rain Barrels</a>	Grade 8-12	
<a href="#">Activity: Take Action: Plant a Tree</a>	Energy	Students investigate and compare how forces affect living things and objects in water and air.
	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.

Program: Flood:ED

Grade 6 - Alberta Science Curriculum Connections



Activity Name	Organizing Idea	Learning Outcome
<a href="#">Activity: Hot Spot Investigators</a>	Energy	Students analyze forces and relate them to interactions between objects.
	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.
<a href="#">Activity: School Greening: Investigating Simulator Solutions</a>	Energy	Students analyze forces and relate them to interactions between objects.
	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.
<a href="#">Activity: Flood Risk Management Awareness</a>	Energy	Students analyze forces and relate them to interactions between objects.
	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.
<a href="#">Activity: Flood:ED School Greening Simulator</a>	Energy	Students analyze forces and relate them to interactions between objects.
	Earth Systems	Students investigate climate, changes in climate, and the impact of climate change on Earth.
	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.
<a href="#">Activity: Flooding Mapping Tour</a>	Energy	Students analyze forces and relate them to interactions between objects.
	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.
<a href="#">Activity: Flooding and Climate Change</a>	Energy	Students analyze forces and relate them to interactions between objects.
	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.
<a href="#">Activity: Climate Change in My Watershed Inquiry</a>	Grade 9-12	

<a href="#">Activity: Extreme Weather Inquiry</a>	Grade 9-12	
<a href="#">Activity: Runoff Footprint</a>	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.
	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.
<a href="#">Activity: Understand Flooding</a>	Energy	Students analyze forces and relate them to interactions between objects.
	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.
<a href="#">Activity: What are Floodplains and Watersheds?</a>	Energy	Students analyze forces and relate them to interactions between objects.
	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.
<a href="#">Activity: Flood Resilience Plan for Your School</a>	Energy	Students analyze forces and relate them to interactions between objects.
	Earth Systems	Students investigate climate, changes in climate, and the impact of climate change on Earth.
<a href="#">Activity: Preparing for Flood Resilience</a>	Energy	Students analyze forces and relate them to interactions between objects.
	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.
<a href="#">Activity: Take Action: Adopt a Drain Campaign</a>	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.
<a href="#">Activity: Take Action: Build a Rain Garden</a>	Grade 8-12	
<a href="#">Activity: Take Action: Flood Protect Your Home</a>	Grade 8-12	
<a href="#">Activity: Chasse Au Trésor</a>	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.
<a href="#">Activity: Take Action: Home Flood Protector Scavenger Hunt</a>	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.

<a href="#">Activity: Take Action: Install Rain Barrels</a>	Grade 8-12	
<a href="#">Activity: Take Action: Plant a Tree</a>	Energy	Students analyze forces and relate them to interactions between objects.
	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 Name	Organizing Idea	Learning Outcome
<a href="#">Activity: Hot Spot Investigators</a>	Interactions and Ecosystems	Trace and interpret the flow of energy and materials within an ecosystem
		Describe the relationships among knowledge, decisions and actions in maintaining life-supporting environments
	Heat and Temperature	Illustrate and explain how human needs have led to technologies for obtaining and controlling thermal energy and to increased use of energy resources
		Describe the nature of thermal energy and its effects on different forms of matter, using informal observations, experimental evidence and models
		Apply an understanding of heat and temperature in interpreting natural phenomena and technological devices
		Analyze issues related to the selection and use of thermal technologies, and explain decisions in terms of advantages and disadvantages for sustainability
<a href="#">Activity: School Greening: Investigating Simulator Solutions</a>	Interactions and Ecosystems	Investigate and describe relationships between humans and their environments, and identify related issues and scientific questions
		Trace and interpret the flow of energy and materials within an ecosystem
		Describe the relationships among knowledge, decisions and actions in maintaining life-supporting environments
	Heat and Temperature	Illustrate and explain how human needs have led to technologies for obtaining and controlling thermal energy and to increased use of energy resources
		Describe the nature of thermal energy and its effects on different forms of matter, using informal observations, experimental evidence and models
		Apply an understanding of heat and temperature in interpreting natural phenomena and technological devices
		Analyze issues related to the selection and use of thermal technologies, and explain decisions in terms of advantages and disadvantages for sustainability
	Structures and Forces	Investigate and analyze forces within structures, and forces applied to them
		Investigate and analyze the properties of materials used in structures
		Demonstrate and describe processes used in developing, evaluating and improving structures that will meet human needs with a margin of safety



<a href="#">Activity: Flood Risk Management Awareness</a>	Interactions and Ecosystems	Trace and interpret the flow of energy and materials within an ecosystem
		Describe the relationships among knowledge, decisions and actions in maintaining life-supporting environments
	Structures and Forces	Describe and interpret different types of structures encountered in everyday objects, buildings, plants and animals; and identify materials from which they are made
		Investigate and analyze forces within structures, and forces applied to them
		Investigate and analyze the properties of materials used in structures
		Demonstrate and describe processes used in developing, evaluating and improving structures that will meet human needs with a margin of safety
<a href="#">Activity: FLOOD:ED School Greening Simulator</a>	Interactions and Ecosystems	Investigate and describe relationships between humans and their environments, and identify related issues and scientific questions
		Trace and interpret the flow of energy and materials within an ecosystem
		Describe the relationships among knowledge, decisions and actions in maintaining life-supporting environments
	Heat and Temperature	Illustrate and explain how human needs have led to technologies for obtaining and controlling thermal energy and to increased use of energy resources
		Describe the nature of thermal energy and its effects on different forms of matter, using informal observations, experimental evidence and models
		Apply an understanding of heat and temperature in interpreting natural phenomena and technological devices
		Analyze issues related to the selection and use of thermal technologies, and explain decisions in terms of advantages and disadvantages for sustainability
	Structures and Forces	Investigate and analyze forces within structures, and forces applied to them
		Investigate and analyze the properties of materials used in structures
		Demonstrate and describe processes used in developing, evaluating and improving structures that will meet human needs with a margin of safety

<a href="#">Activity: Flooding Mapping Tour</a>	Interactions and Ecosystems	Trace and interpret the flow of energy and materials within an ecosystem
		Describe the relationships among knowledge, decisions and actions in maintaining life-supporting environments
	Structures and Forces	Describe and interpret different types of structures encountered in everyday objects, buildings, plants and animals; and identify materials from which they are made
		Investigate and analyze forces within structures, and forces applied to them
		Investigate and analyze the properties of materials used in structures
		Demonstrate and describe processes used in developing, evaluating and improving structures that will meet human needs with a margin of safety
<a href="#">Activity: Flooding and Climate Change</a>	Interactions and Ecosystems	Trace and interpret the flow of energy and materials within an ecosystem
		Describe the relationships among knowledge, decisions and actions in maintaining life-supporting environments
	Structures and Forces	Describe and interpret different types of structures encountered in everyday objects, buildings, plants and animals; and identify materials from which they are made
		Investigate and analyze forces within structures, and forces applied to them
		Investigate and analyze the properties of materials used in structures
		Demonstrate and describe processes used in developing, evaluating and improving structures that will meet human needs with a margin of safety
<a href="#">Activity: Climate Change In My Watershed Inquiry</a>	Grade 9-12	
<a href="#">Activity: Extreme Weather Inquiry</a>	Grade 9-12	



<a href="#">Activity: Runoff Footprint</a>	Interactions and Ecosystems	Investigate and describe relationships between humans and their environments, and identify related issues and scientific questions
		Trace and interpret the flow of energy and materials within an ecosystem
		Monitor a local environment, and assess the impacts of environmental factors on the growth, health and reproduction of organisms in that environment
		Describe the relationships among knowledge, decisions and actions in maintaining life-supporting environments
	Structures and Forces	Describe and interpret different types of structures encountered in everyday objects, buildings, plants and animals; and identify materials from which they are made
		Investigate and analyze forces within structures, and forces applied to them
		Investigate and analyze the properties of materials used in structures
		Demonstrate and describe processes used in developing, evaluating and improving structures that will meet human needs with a margin of safety
<a href="#">Activity: Understand Flooding</a>	Interactions and Ecosystems	Trace and interpret the flow of energy and materials within an ecosystem
		Describe the relationships among knowledge, decisions and actions in maintaining life-supporting environments
	Structures and Forces	Describe and interpret different types of structures encountered in everyday objects, buildings, plants and animals; and identify materials from which they are made
		Investigate and analyze forces within structures, and forces applied to them
		Investigate and analyze the properties of materials used in structures
		Demonstrate and describe processes used in developing, evaluating and improving structures that will meet human needs with a margin of safety
<a href="#">Activity: What are Floodplains and Watersheds?</a>	Interactions and Ecosystems	Trace and interpret the flow of energy and materials within an ecosystem
		Describe the relationships among knowledge, decisions and actions in maintaining life-supporting environments
	Structures and Forces	Describe and interpret different types of structures encountered in everyday objects, buildings, plants and animals; and identify materials from which they are made
		Investigate and analyze forces within structures, and forces applied to them
		Investigate and analyze the properties of materials used in structures
		Demonstrate and describe processes used in developing, evaluating and improving structures that will meet human needs with a margin of safety

<a href="#">Activity: Flood Resilience Plan for Your School</a>	Interactions and Ecosystems	Trace and interpret the flow of energy and materials within an ecosystem
		Describe the relationships among knowledge, decisions and actions in maintaining life-supporting environments
	Structures and Forces	Describe and interpret different types of structures encountered in everyday objects, buildings, plants and animals; and identify materials from which they are made
		Investigate and analyze forces within structures, and forces applied to them
		Investigate and analyze the properties of materials used in structures
		Demonstrate and describe processes used in developing, evaluating and improving structures that will meet human needs with a margin of safety
<a href="#">Activity: Preparing for Flood Resilience</a>	Interactions and Ecosystems	Trace and interpret the flow of energy and materials within an ecosystem
		Describe the relationships among knowledge, decisions and actions in maintaining life-supporting environments
	Structures and Forces	Describe and interpret different types of structures encountered in everyday objects, buildings, plants and animals; and identify materials from which they are made
		Investigate and analyze forces within structures, and forces applied to them
		Investigate and analyze the properties of materials used in structures
		Demonstrate and describe processes used in developing, evaluating and improving structures that will meet human needs with a margin of safety
<a href="#">Activity: Take Action: Adopt a Drain Campaign</a>	Interactions and Ecosystems	Investigate and describe relationships between humans and their environments, and identify related issues and scientific questions
		Trace and interpret the flow of energy and materials within an ecosystem
		Describe the relationships among knowledge, decisions and actions in maintaining life-supporting environments
	Structures and Forces	Investigate and analyze forces within structures, and forces applied to them
		Investigate and analyze the properties of materials used in structures
		Demonstrate and describe processes used in developing, evaluating and improving structures that will meet human needs with a margin of safety
<a href="#">Activity: Take Action: Build a Rain Garden</a>	Grade 8-12	
<a href="#">Activity: Take Action: Flood Protect Your Home</a>	Grade 8-12	

<a href="#">Activity: Chasse Au Trésor</a>	Interactions and Ecosystems	Investigate and describe relationships between humans and their environments, and identify related issues and scientific questions
		Trace and interpret the flow of energy and materials within an ecosystem
		Describe the relationships among knowledge, decisions and actions in maintaining life-supporting environments
	Structures and Forces	Investigate and analyze forces within structures, and forces applied to them
		Investigate and analyze the properties of materials used in structures
<a href="#">Activity: Take Action: Home Flood Protector Scavenger Hunt</a>	Interactions and Ecosystems	Investigate and describe relationships between humans and their environments, and identify related issues and scientific questions
		Trace and interpret the flow of energy and materials within an ecosystem
		Describe the relationships among knowledge, decisions and actions in maintaining life-supporting environments
	Structures and Forces	Investigate and analyze forces within structures, and forces applied to them
		Investigate and analyze the properties of materials used in structures
<a href="#">Activity: Take Action: Install Rain Barrels</a>	<b>Grade 8-12</b>	
<a href="#">Activity: Take Action: Plant a Tree</a>	Interactions and Ecosystems	Investigate and describe relationships between humans and their environments, and identify related issues and scientific questions
		Trace and interpret the flow of energy and materials within an ecosystem
		Describe the relationships among knowledge, decisions and actions in maintaining life-supporting environments
	Structures and Forces	Investigate and analyze forces within structures, and forces applied to them
		Investigate and analyze the properties of materials used in structures
		Demonstrate and describe processes used in developing, evaluating and improving structures that will meet human needs with a margin of safety

Program: Flood:ED

Grade 8 - Alberta Science Curriculum Connections



Activity Name	Organizing Idea	Learning Outcome
<a href="#">Activity: Hot Spot Investigators</a>	Mechanical Systems	Investigate and describe the transmission of force and energy between parts of a mechanical system
		Analyze the social and environmental contexts of science and technology, as they apply to the development of mechanical devices
<a href="#">Activity: School Greening: Investigating Simulator Solutions</a>	Mechanical Systems	Illustrate the development of science and technology by describing, comparing and interpreting mechanical devices that have been improved over time
		Investigate and describe the transmission of force and energy between parts of a mechanical system
		Analyze the social and environmental contexts of science and technology, as they apply to the development of mechanical devices
	Freshwater and Saltwater Systems	Investigate and interpret linkages among landforms, water and climate
		Analyze human impacts on aquatic systems; and identify the roles of science and technology in addressing related questions, problems and issues
<a href="#">Activity: Flood Risk Management Awareness</a>	Mechanical Systems	Illustrate the development of science and technology by describing, comparing and interpreting mechanical devices that have been improved over time
		Investigate and describe the transmission of force and energy between parts of a mechanical system
		Analyze the social and environmental contexts of science and technology, as they apply to the development of mechanical devices
	Freshwater and Saltwater Systems	Investigate and interpret linkages among landforms, water and climate
		Analyze human impacts on aquatic systems; and identify the roles of science and technology in addressing related questions, problems and issues

<a href="#">Activity: FLOOD:ED School Greening Simulator</a>	Mechanical Systems	Illustrate the development of science and technology by describing, comparing and interpreting mechanical devices that have been improved over time
		Investigate and describe the transmission of force and energy between parts of a mechanical system
		Analyze the social and environmental contexts of science and technology, as they apply to the development of mechanical devices
	Freshwater and Saltwater Systems	Investigate and interpret linkages among landforms, water and climate
		Analyze human impacts on aquatic systems; and identify the roles of science and technology in addressing related questions, problems and issues
<a href="#">Activity: Flooding Mapping Tour</a>	Mechanical Systems	Illustrate the development of science and technology by describing, comparing and interpreting mechanical devices that have been improved over time
		Investigate and describe the transmission of force and energy between parts of a mechanical system
		Analyze the social and environmental contexts of science and technology, as they apply to the development of mechanical devices
	Freshwater and Saltwater Systems	Investigate and interpret linkages among landforms, water and climate
		Analyze human impacts on aquatic systems; and identify the roles of science and technology in addressing related questions, problems and issues
<a href="#">Activity: Flooding and Climate Change</a>	Mechanical Systems	Illustrate the development of science and technology by describing, comparing and interpreting mechanical devices that have been improved over time
		Investigate and describe the transmission of force and energy between parts of a mechanical system
		Analyze the social and environmental contexts of science and technology, as they apply to the development of mechanical devices
	Freshwater and Saltwater Systems	Investigate and interpret linkages among landforms, water and climate
		Analyze human impacts on aquatic systems; and identify the roles of science and technology in addressing related questions, problems and issues
<a href="#">Activity: Climate Change In My Watershed Inquiry</a>	Grade 9-12	
<a href="#">Activity: Extreme Weather Inquiry</a>	Grade 9-12	


<a href="#">Activity: Runoff Footprint</a>	Mix and Flow of Matter	Investigate and describe the composition of fluids, and interpret the behaviour of materials in solution
		Identify, interpret and apply technologies based on properties of fluids
	Mechanical Systems	Illustrate the development of science and technology by describing, comparing and interpreting mechanical devices that have been improved over time
		Investigate and describe the transmission of force and energy between parts of a mechanical system
		Analyze the social and environmental contexts of science and technology, as they apply to the development of mechanical devices
	Freshwater and Saltwater Systems	Investigate and interpret linkages among landforms, water and climate
		Analyze human impacts on aquatic systems; and identify the roles of science and technology in addressing related questions, problems and issues
<a href="#">Activity: Understand Flooding</a>	Mechanical Systems	Illustrate the development of science and technology by describing, comparing and interpreting mechanical devices that have been improved over time
		Investigate and describe the transmission of force and energy between parts of a mechanical system
		Analyze the social and environmental contexts of science and technology, as they apply to the development of mechanical devices
	Freshwater and Saltwater Systems	Investigate and interpret linkages among landforms, water and climate
		Analyze human impacts on aquatic systems; and identify the roles of science and technology in addressing related questions, problems and issues
<a href="#">Activity: What are Floodplains and Watersheds?</a>	Mechanical Systems	Illustrate the development of science and technology by describing, comparing and interpreting mechanical devices that have been improved over time
		Investigate and describe the transmission of force and energy between parts of a mechanical system
		Analyze the social and environmental contexts of science and technology, as they apply to the development of mechanical devices
	Freshwater and Saltwater Systems	Investigate and interpret linkages among landforms, water and climate
		Analyze human impacts on aquatic systems; and identify the roles of science and technology in addressing related questions, problems and issues



<a href="#">Activity: Flood Resilience Plan for Your School</a>	Mechanical Systems	Illustrate the development of science and technology by describing, comparing and interpreting mechanical devices that have been improved over time
		Investigate and describe the transmission of force and energy between parts of a mechanical system
		Analyze the social and environmental contexts of science and technology, as they apply to the development of mechanical devices
	Freshwater and Saltwater Systems	Investigate and interpret linkages among landforms, water and climate
		Analyze human impacts on aquatic systems; and identify the roles of science and technology in addressing related questions, problems and issues
<a href="#">Activity: Preparing for Flood Resilience</a>	Mechanical Systems	Illustrate the development of science and technology by describing, comparing and interpreting mechanical devices that have been improved over time
		Investigate and describe the transmission of force and energy between parts of a mechanical system
		Analyze the social and environmental contexts of science and technology, as they apply to the development of mechanical devices
	Freshwater and Saltwater Systems	Investigate and interpret linkages among landforms, water and climate
		Analyze human impacts on aquatic systems; and identify the roles of science and technology in addressing related questions, problems and issues
<a href="#">Activity: Take Action: Adopt a Drain Campaign</a>	Mechanical Systems	Illustrate the development of science and technology by describing, comparing and interpreting mechanical devices that have been improved over time
		Investigate and describe the transmission of force and energy between parts of a mechanical system
		Analyze the social and environmental contexts of science and technology, as they apply to the development of mechanical devices
	Freshwater and Saltwater Systems	Investigate and interpret linkages among landforms, water and climate
		Analyze human impacts on aquatic systems; and identify the roles of science and technology in addressing related questions, problems and issues

<a href="#">Activity: Take Action: Build a Rain Garden</a>	Mechanical Systems	Illustrate the development of science and technology by describing, comparing and interpreting mechanical devices that have been improved over time
		Investigate and describe the transmission of force and energy between parts of a mechanical system
		Analyze the social and environmental contexts of science and technology, as they apply to the development of mechanical devices
	Freshwater and Saltwater Systems	Investigate and interpret linkages among landforms, water and climate
		Analyze human impacts on aquatic systems; and identify the roles of science and technology in addressing related questions, problems and issues
<a href="#">Activity: Take Action: Flood Protect Your Home</a>	Mechanical Systems	Illustrate the development of science and technology by describing, comparing and interpreting mechanical devices that have been improved over time
		Investigate and describe the transmission of force and energy between parts of a mechanical system
		Analyze the social and environmental contexts of science and technology, as they apply to the development of mechanical devices
	Freshwater and Saltwater Systems	Investigate and interpret linkages among landforms, water and climate
		Analyze human impacts on aquatic systems; and identify the roles of science and technology in addressing related questions, problems and issues
<a href="#">Activity: Chasse Au Trésor</a>	Mechanical Systems	Illustrate the development of science and technology by describing, comparing and interpreting mechanical devices that have been improved over time
		Investigate and describe the transmission of force and energy between parts of a mechanical system
		Analyze the social and environmental contexts of science and technology, as they apply to the development of mechanical devices
	Freshwater and Saltwater Systems	Investigate and interpret linkages among landforms, water and climate
		Analyze human impacts on aquatic systems; and identify the roles of science and technology in addressing related questions, problems and issues

<a href="#">Activity: Take Action: Home Flood Protector Scavenger Hunt</a>	Mechanical Systems	Illustrate the development of science and technology by describing, comparing and interpreting mechanical devices that have been improved over time
		Investigate and describe the transmission of force and energy between parts of a mechanical system
		Analyze the social and environmental contexts of science and technology, as they apply to the development of mechanical devices
	Freshwater and Saltwater Systems	Investigate and interpret linkages among landforms, water and climate
		Analyze human impacts on aquatic systems; and identify the roles of science and technology in addressing related questions, problems and issues
<a href="#">Activity: Take Action: Install Rain Barrels</a>	Mechanical Systems	Illustrate the development of science and technology by describing, comparing and interpreting mechanical devices that have been improved over time
		Investigate and describe the transmission of force and energy between parts of a mechanical system
		Analyze the social and environmental contexts of science and technology, as they apply to the development of mechanical devices
	Freshwater and Saltwater Systems	Investigate and interpret linkages among landforms, water and climate
		Analyze human impacts on aquatic systems; and identify the roles of science and technology in addressing related questions, problems and issues
<a href="#">Activity: Take Action: Plant a Tree</a>	Mechanical Systems	Illustrate the development of science and technology by describing, comparing and interpreting mechanical devices that have been improved over time
		Investigate and describe the transmission of force and energy between parts of a mechanical system
		Analyze the social and environmental contexts of science and technology, as they apply to the development of mechanical devices
	Freshwater and Saltwater Systems	Investigate and interpret linkages among landforms, water and climate
		Analyze human impacts on aquatic systems; and identify the roles of science and technology in addressing related questions, problems and issues

Program: Flood:ED	Grade 9 - Alberta Science Curriculum Connections		 greenlearning.ca programs@greenlearning.ca
Activity Name	Organizing Idea	Learning Outcome	
<a href="#">Activity: Hot Spot Investigators</a>	Electrical Principles and Technologies	Investigate and interpret the use of devices to convert various forms of energy to electrical energy and electrical energy to other forms of energy	
		Identify and estimate energy inputs and outputs for example devices and systems, and evaluate the efficiency of energy conversions	
		Describe and discuss the societal and environmental implications of the use of electrical energy	
<a href="#">Activity: School Greening: Investigating Simulator Solutions</a>	Electrical Principles and Technologies	Investigate and interpret the use of devices to convert various forms of energy to electrical energy and electrical energy to other forms of energy	
		Identify and estimate energy inputs and outputs for example devices and systems, and evaluate the efficiency of energy conversions	
		Describe and discuss the societal and environmental implications of the use of electrical energy	
<a href="#">Activity: Flood Risk Management Awareness</a>	N/A		
<a href="#">Activity: FLOOD:ED School Greening Simulator</a>	Electrical Principles and Technologies	Investigate and interpret the use of devices to convert various forms of energy to electrical energy and electrical energy to other forms of energy	
		Identify and estimate energy inputs and outputs for example devices and systems, and evaluate the efficiency of energy conversions	
		Describe and discuss the societal and environmental implications of the use of electrical energy	
<a href="#">Activity: Flooding Mapping Tour</a>	N/A		
<a href="#">Activity: Flooding and Climate Change</a>	N/A		
<a href="#">Activity: Climate Change In My Watershed Inquiry</a>	N/A		
<a href="#">Activity: Extreme Weather Inquiry</a>	N/A		
<a href="#">Activity: Runoff Footprint</a>	N/A		
<a href="#">Activity: Understand Flooding</a>	N/A		

<a href="#">Activity: What are Floodplains and Watersheds?</a>	N/A	
<a href="#">Activity: Flood Resilience Plan for Your School</a>	N/A	
<a href="#">Activity: Preparing for Flood Resilience</a>	N/A	
<a href="#">Activity: Take Action: Adopt a Drain Campaign</a>	N/A	
<a href="#">Activity: Take Action: Build a Rain Garden</a>	N/A	
<a href="#">Activity: Take Action: Flood Protect Your Home</a>	N/A	
<a href="#">Activity: Chasse Au Trésor</a>	N/A	
<a href="#">Activity: Take Action: Home Flood Protector Scavenger Hunt</a>	N/A	
<a href="#">Activity: Take Action: Install Rain Barrels</a>	N/A	
<a href="#">Activity: Take Action: Plant a Tree</a>	N/A	

Program: Flood:ED

Grade 10 - Alberta Science Curriculum Connections



Activity Name	Organizing Idea	Learning Outcome
<a href="#">Activity: Hot Spot Investigators</a>	Grade 5-9	
<a href="#">Activity: School Greening: Investigating Simulator Solutions</a>	10 - Unit B: Energy Flow in Technological Systems	Analyze and illustrate how technologies based on thermodynamic principles were developed before the laws of thermodynamics were formulated
		Explain and apply concepts used in theoretical and practical measures of energy in mechanical systems
		Apply the principles of energy conservation and thermodynamics to investigate, describe and predict efficiency of energy transformation in technological systems
	10 - Unit D: Energy Flow in Global Systems	Describe how the relationships among input solar energy, output terrestrial energy and energy flow within the biosphere affect the lives of humans and other species
		Analyze the relationships among net solar energy, global energy transfer processes—primarily radiation, convection and hydrologic cycle—and climate.
<a href="#">Activity: Flood Risk Management Awareness</a>		N/A
<a href="#">Activity: FLOOD:ED School Greening Simulator</a>	10 - Unit B: Energy Flow in Technological Systems	Analyze and illustrate how technologies based on thermodynamic principles were developed before the laws of thermodynamics were formulated
		Explain and apply concepts used in theoretical and practical measures of energy in mechanical systems
		Apply the principles of energy conservation and thermodynamics to investigate, describe and predict efficiency of energy transformation in technological systems
	10 - Unit D: Energy Flow in Global Systems	Describe how the relationships among input solar energy, output terrestrial energy and energy flow within the biosphere affect the lives of humans and other species
		Analyze the relationships among net solar energy, global energy transfer processes—primarily radiation, convection and hydrologic cycle—and climate.
<a href="#">Activity: Flooding Mapping Tour</a>	N/A	



<a href="#">Activity: Flooding and Climate Change</a>	10 - Unit D: Energy Flow in Global Systems	Describe how the relationships among input solar energy, output terrestrial energy and energy flow within the biosphere affect the lives of humans and other species
		Relate climate to the characteristics of the world’s major biomes, and compare biomes in different regions of the world
		Investigate and interpret the role of environmental factors on global energy transfer and climate change
<a href="#">Activity: Climate Change In My Watershed Inquiry</a>	10 - Unit D: Energy Flow in Global Systems	Describe how the relationships among input solar energy, output terrestrial energy and energy flow within the biosphere affect the lives of humans and other species
		Relate climate to the characteristics of the world’s major biomes, and compare biomes in different regions of the world
		Investigate and interpret the role of environmental factors on global energy transfer and climate change
<a href="#">Activity: Extreme Weather Inquiry</a>	N/A	
<a href="#">Activity: Runoff Footprint</a>	N/A	
<a href="#">Activity: Understand Flooding</a>	N/A	
<a href="#">Activity: What are Floodplains and Watersheds?</a>	N/A	
<a href="#">Activity: Flood Resilience Plan for Your School</a>	N/A	
<a href="#">Activity: Preparing for Flood Resilience</a>	N/A	
<a href="#">Activity: Take Action: Adopt a Drain Campaign</a>	N/A	
<a href="#">Activity: Take Action: Build a Rain Garden</a>	N/A	
<a href="#">Activity: Take Action: Flood Protect Your Home</a>	N/A	
<a href="#">Activity: Chasse Au Trésor</a>	N/A	
<a href="#">Activity: Take Action: Home Flood Protector Scavenger Hunt</a>	N/A	
<a href="#">Activity: Take Action: Install Rain Barrels</a>	N/A	
<a href="#">Activity: Take Action: Plant a Tree</a>	14 - Unit D: Investigating Matter & Energy in the Environment	Describe how the flow of matter in the biosphere is cyclical along characteristic pathways and can be disrupted by human activity
		Analyze a local ecosystem in terms of its biotic and abiotic components, and describe factors of the equilibrium