Program: Flood:ED	Grade 10 - Alberta Science Curriculum Connections	

greenlearning.ca
programs@greenlearning.ca

Activity Name	Organizing Idea	Learning Outcome
Activity: Hot Spot Investigators	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.
Activity: School Greening: Investigating Simulator Solutions	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.
Activity: Flood Risk Management Awareness	**N/A**	
Activity: FLOOD:ED School Greening Simulator	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.
Activity: Flooding Mapping Tour	**N/A**	

Activity: Flooding and Climate Change	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
Activity: Climate Change In My Watershed Inquiry	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
Activity: Extreme Weather Inquiry	**N/A**	
Activity: Runoff Footprint	**N/A**	
Activity: Understand Flooding	**N/A**	
Activity: What are Floodplains and Watersheds?	**N/A**	
Activity: Flood Resilience Plan for Your School	**N/A**	
Activity: Preparing for Flood Resilience	**N/A**	
Activity: Take Action: Adopt a Drain Campaign	**N/A**	
Activity: Take Action: Build a Rain Garden	**N/A**	
Activity: Take Action: Flood Protect Your Home	**N/A**	
Activity: Chasse Au Trésor	**N/A**	
Activity: Take Action: Home Flood Protector Scavenger Hunt	**N/A**	
Activity: Take Action: Install Rain Barrels	**N/A**	
Activity: Take Action: Plant a Tree	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