Program: Flood:ED	Grade 7 – Ontario Science and Technology Curriculum Connections	

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Activity Name	Organizing Idea	Learning Outcome
Activity: Hot Spot Investigators	A. Stem Skills and Connections	A3. Applications, Connections, and Contributions – Demonstrate an understanding of the practical applications of science and technology, and of contributions to science and technology from people with diverse lived experiences
	E. Earth and Space Systems: Heat in the Environment	E2. Exploring and Understanding Concepts – Demonstrate an understanding of heat as a form of energy that is associated with the movement of particles and is essential for many natural processes within Earth's systems
Activity: School Greening: Investigating Simulator Solutions	A. Stem Skills and Connections	A3. Applications, Connections, and Contributions – Demonstrate an understanding of the practical applications of science and technology, and of contributions to science and technology from people with diverse lived experiences
	D. Structures and Mechanisms: Form, Function, and Design of Structures	D1. Relating Science and Technology to Our Changing World – Analyse personal, social, economic, and environmental factors that should be considered when designing and building structures
		D2. Exploring and Understanding Concepts – Demonstrate an understanding of the relationship between structural forms and the forces acting on them
Activity: Flood Risk Management Awareness	**N/A**	
Activity: Flood:ED School Greening Simulator	**N/A**	
Activity: Flooding Mapping Tour	D. Structures and Mechanisms: Form, Function, and Design of Structures	D1. Relating Science and Technology to Our Changing World – Analyse personal, social, economic, and environmental factors that should be considered when designing and building structures
Activity: Flooding and Climate Change	B. Life Systems: Interactions in the Environment	B1. Relating Science and Technology to Our Changing World – Assess the impact of human activities and technologies on the environment, and analyse ways to mitigate negative impacts and contribute to environmental sustainability
		B2. Exploring and Understanding Concepts – Demonstrate an understanding of interactions between and among biotic and abiotic components in the environment
Activity: Climate Change in My Watershed Inquiry	B. Life Systems: Interactions in the Environment	B1. Relating Science and Technology to Our Changing World – Assess the impact of human activities and technologies on the environment, and analyse ways to mitigate negative impacts and contribute to environmental sustainability

Activity: Extreme Weather Inquiry	B. Life Systems: Interactions in the Environment	B1. Relating Science and Technology to Our Changing World – Assess the impact of human activities and technologies on the environment, and analyse ways to mitigate negative impacts and contribute to environmental sustainability
Activity: Runoff Footprint	A. Stem Skills and Connections	A1. STEM Investigation and Communication Skills – Use a scientific research process, a scientific experimentation process, and an engineering design process to conduct investigations, following appropriate health and safety procedures
Activity: Understand Flooding	A. Stem Skills and Connections	A1. STEM Investigation and Communication Skills – Use a scientific research process, a scientific experimentation process, and an engineering design process to conduct investigations, following appropriate health and safety procedures
Activity: What are Floodplains and Watersheds?	**N/A**	
Activity: Flood Resilience Plan for Your School	D. Structures and Mechanisms: Form, Function, and Design of Structures	D1. Relating Science and Technology to Our Changing World – Analyse personal, social, economic, and environmental factors that should be considered when designing and building structures
Activity: Preparing for Flood Resilience	D. Structures and Mechanisms: Form, Function, and Design of Structures	D1. Relating Science and Technology to Our Changing World – Analyse personal, social, economic, and environmental factors that should be considered when designing and building structures
Activity: Take Action: Adopt a Drain Campaign	D. Structures and Mechanisms: Form, Function, and Design of Structures	D2. Exploring and Understanding Concepts – Demonstrate an understanding of the relationship between structural forms and the forces acting on them
Activity: Take Action: Build a Rain Garden	A. Stem Skills and Connections	A1. STEM Investigation and Communication Skills – Use a scientific research process, a scientific experimentation process, and an engineering design process to conduct investigations, following appropriate health and safety procedures
	B. Life Systems: Interactions in the Environment	B1. Relating Science and Technology to Our Changing World – Assess the impact of human activities and technologies on the environment, and analyse ways to mitigate negative impacts and contribute to environmental sustainability
Activity: Take Action: Flood Protect Your Home	A. Stem Skills and Connections	A1. STEM Investigation and Communication Skills – Use a scientific research process, a scientific experimentation process, and an engineering design process to conduct investigations, following appropriate health and safety procedures
	D. Structures and Mechanisms: Form, Function, and Design of Structures	D1. Relating Science and Technology to Our Changing World – Analyse personal, social, economic, and environmental factors that should be considered when designing and building structures
Activity: Chasse Au Trésor	**N/A**	

Activity: Take Action: Home Flood Protector Scavenger Hunt	**N/A**	
Activity: Take Action: Install Rain Barrels	A. Stem Skills and Connections	A1. STEM Investigation and Communication Skills – Use a scientific research process, a scientific experimentation process, and an engineering design process to conduct investigations, following appropriate health and safety procedures
	B. Life Systems: Interactions in the Environment	B1. Relating Science and Technology to Our Changing World – Assess the impact of human activities and technologies on the environment, and analyse ways to mitigate negative impacts and contribute to environmental sustainability
	D. Structures and Mechanisms: Form, Function, and Design of Structures	D1. Relating Science and Technology to Our Changing World – Analyse personal, social, economic, and environmental factors that should be considered when designing and building structures
Activity: Take Action: Plant a Tree	B. Life Systems: Interactions in the Environment	B1. Relating Science and Technology to Our Changing World – Assess the impact of human activities and technologies on the environment, and analyse ways to mitigate negative impacts and contribute to environmental sustainability
		B2. Exploring and Understanding Concepts – Demonstrate an understanding of interactions between and among biotic and abiotic components in the environment