Program: Eco 360

Grade 7 – Ontario Science and Technology Curriculum Connections

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Activity Name	Organizing Idea	Learning Outcome
Activity: All About Plastics	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
	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
	C. Matter and Energy: Pure Substances and Mixtures	C1. Relating Science and Technology to Our Changing World – Evaluate the environmental and social impacts of the use and disposal of various pure substances and mixtures
Activity: Circular Economy and the UN's Sustainable Development Goals	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
	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
	C. Matter and Energy: Pure Substances and Mixtures	C1. Relating Science and Technology to Our Changing World – Evaluate the environmental and social impacts of the use and disposal of various pure substances and mixtures
Activity: How Plastic Waste Harms the Environment	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
	C. Matter and Energy: Pure Substances and Mixtures	C1. Relating Science and Technology to Our Changing World – Evaluate the environmental and social impacts of the use and disposal of various pure substances and mixtures
		C2. Exploring and Understanding Concepts – Demonstrate an understanding of the nature of matter, including the properties of pure substances and mixtures, and describe these properties using particle theory

Activity: Imagine a Waste-Free Economy	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
	C. Matter and Energy: Pure Substances and Mixtures	C1. Relating Science and Technology to Our Changing World – Evaluate the environmental and social impacts of the use and disposal of various pure substances and mixtures
Activity: Our Plastic Consumption Footprint	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
	C. Matter and Energy: Pure Substances and Mixtures	C1. Relating Science and Technology to Our Changing World – Evaluate the environmental and social impacts of the use and disposal of various pure substances and mixtures
Activity: Plastic Remake	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: Plastic in Our Oceans	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
	C. Matter and Energy: Pure Substances and Mixtures	C1. Relating Science and Technology to Our Changing World – Evaluate the environmental and social impacts of the use and disposal of various pure substances and mixtures
		C2. Exploring and Understanding Concepts – Demonstrate an understanding of the nature of matter, including the properties of pure substances and mixtures, and describe these properties using particle theory
Activity: Sorting Your Waste	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
	C. Matter and Energy: Pure Substances and Mixtures	C1. Relating Science and Technology to Our Changing World – Evaluate the environmental and social impacts of the use and disposal of various pure substances and mixtures

Activity: Taking Inspiration from Nature	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
Activity: Types of Plastics	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
	C. Matter and Energy: Pure Substances and Mixtures	C2. Exploring and Understanding Concepts – Demonstrate an understanding of the nature of matter, including the properties of pure substances and mixtures, and describe these properties using particle theory
Activity: Why Do We Have Plastic Waste in the Environment?	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
	C. Matter and Energy: Pure Substances and Mixtures	C1. Relating Science and Technology to Our Changing World – Evaluate the environmental and social impacts of the use and disposal of various pure substances and mixtures