

Program: Eco 360

Grade 3 – Ontario Science and Technology Curriculum Connections



Activity Name	Organizing Idea	Learning Outcome
<a href="#">Activity: All About Plastics</a>	D. Structures and Mechanisms: Strong and Stable Structures	D1. Relating Science and Technology to Our Changing World – Assess the importance of form, function, strength, and stability in structures to society and the environment
<a href="#">Activity: Circular Economy and the UN's Sustainable Development Goals</a>	E. Earth and Space Systems: Soils in the Environment	E1. Relating Science and Technology to Our Changing World – Assess the importance of soils for society and the environment, and the impact of human activity on soils
<a href="#">Activity: How Plastic Waste Harms the Environment</a>	A. Stem Skills and Connection	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: Strong and Stable Structures	D1. Relating Science and Technology to Our Changing World – Assess the importance of form, function, strength, and stability in structures to society and the environment
<a href="#">Activity: Imagine a Waste-Free Economy</a>	A. Stem Skills and Connection	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: Strong and Stable Structures	D1. Relating Science and Technology to Our Changing World – Assess the importance of form, function, strength, and stability in structures to society and the environment
		D2. Exploring and Understanding Concepts – Demonstrate an understanding of the concepts of strength and stability as they relate to structures with various forms and functions, and of the factors that affect structures’ strength and stability
<a href="#">Activity: Our Plastic Consumption Footprint</a>	A. Stem Skills and Connection	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
<a href="#">Activity: Plastic Remake</a>	A. Stem Skills and Connection	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
<a href="#">Activity: Plastic in Our Oceans</a>	N/A	
<a href="#">Activity: Sorting Your Waste</a>	A. Stem Skills and Connection	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

<a href="#">Activity: Taking Inspiration from Nature</a>	B. Life Systems: Growth and Changes in Plants	B1. Relating Science and Technology to Our Changing World – Assess ways in which plants are beneficial to society and the environment, and ways in which human activity has an impact on plants and plant habitats
		B2. Exploring and Understanding Concepts – Demonstrate an understanding of characteristics and uses of plants and of plants’ responses to the natural environment
<a href="#">Activity: Types of Plastics</a>	A. Stem Skills and Connection	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: Strong and Stable Structures	D2. Exploring and Understanding Concepts – Demonstrate an understanding of the concepts of strength and stability as they relate to structures with various forms and functions, and of the factors that affect structures’ strength and stability
<a href="#">Activity: Why Do We Have Plastic Waste in the Environment?</a>	N/A	

Program: Eco 360

Grade 4 – Ontario Science and Technology Curriculum Connections



Activity Name	Organizing Idea	Learning Outcome
<a href="#">Activity: All About Plastics</a>	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
<a href="#">Activity: Circular Economy and the UN's Sustainable Development Goals</a>	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
<a href="#">Activity: How Plastic Waste Harms the Environment</a>	B. Habitats and Communities	B1. Relating Science and Technology to Our Changing World – Assess impacts of human activities on habitats and communities, and analyse actions for minimizing negative impacts and enhancing positive ones
<a href="#">Activity: Imagine a Waste-Free Economy</a>	N/A	
<a href="#">Activity: Our Plastic Consumption Footprint</a>	N/A	
<a href="#">Activity: Plastic Remake</a>	N/A	
<a href="#">Activity: Plastic in Our Oceans</a>	B. Habitats and Communities	B1. Relating Science and Technology to Our Changing World – Assess impacts of human activities on habitats and communities, and analyse actions for minimizing negative impacts and enhancing positive ones
<a href="#">Activity: Sorting Your Waste</a>	N/A	
<a href="#">Activity: Taking Inspiration from Nature</a>	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
<a href="#">Activity: Types of Plastics</a>	N/A	
<a href="#">Activity: Why Do We Have Plastic Waste in the Environment?</a>	N/A	

Activity Name	Organizing Idea	Learning Outcome
<a href="#">Activity: All About Plastics</a>	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
<a href="#">Activity: Circular Economy and the UN's Sustainable Development Goals</a>	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: Properties of and Changes in Matter	C1. Relating Science and Technology to Our Changing World – Assess the impacts on society and the environment of various processes and materials used in the manufacture of common products, and ways to mitigate negative impacts
<a href="#">Activity: How Plastic Waste Harms the Environment</a>	C. Matter and Energy: Properties of and Changes in Matter	C1. Relating Science and Technology to Our Changing World – Assess the impacts on society and the environment of various processes and materials used in the manufacture of common products, and ways to mitigate negative impacts
<a href="#">Activity: Imagine a Waste-Free Economy</a>	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: Properties of and Changes in Matter	C1. Relating Science and Technology to Our Changing World – Assess the impacts on society and the environment of various processes and materials used in the manufacture of common products, and ways to mitigate negative impacts
	E. Earth and Space Systems: Conservation of Energy and Resources	E1. Relating Science and Technology to Our Changing World – Assess effects of energy and resource use on society and the environment, and suggest options for conserving energy and resources
		E2. Exploring and Understanding Concepts – Demonstrate an understanding of the conservation of energy, and the forms, sources, and uses of energy and resources
<a href="#">Activity: Our Plastic Consumption Footprint</a>	N/A	

<a href="#">Activity: Plastic Remake</a>	E. Earth and Space Systems: Conservation of Energy and Resources	E1. Relating Science and Technology to Our Changing World – Assess effects of energy and resource use on society and the environment, and suggest options for conserving energy and resources
		E2. Exploring and Understanding Concepts – Demonstrate an understanding of the conservation of energy, and the forms, sources, and uses of energy and resources
<a href="#">Activity: Plastic in Our Oceans</a>	N/A	
<a href="#">Activity: Sorting Your Waste</a>	C. Matter and Energy: Properties of and Changes in Matter	C1. Relating Science and Technology to Our Changing World – Assess the impacts on society and the environment of various processes and materials used in the manufacture of common products, and ways to mitigate negative impacts
		C2. Exploring and Understanding Concepts – Demonstrate an understanding of the properties of matter, changes of state, and physical and chemical change
<a href="#">Activity: Taking Inspiration from Nature</a>	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
<a href="#">Activity: Types of Plastics</a>	C. Matter and Energy: Properties of and Changes in Matter	C2. Exploring and Understanding Concepts – Demonstrate an understanding of the properties of matter, changes of state, and physical and chemical change
<a href="#">Activity: Why Do We Have Plastic Waste in the Environment?</a>	C. Matter and Energy: Properties of and Changes in Matter	C1. Relating Science and Technology to Our Changing World – Assess the impacts on society and the environment of various processes and materials used in the manufacture of common products, and ways to mitigate negative impacts

Program: Eco 360

Grade 6 – Ontario Science and Technology Curriculum Connections



Activity Name	Organizing Idea	Learning Outcome
<a href="#">Activity: All About Plastics</a>	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
<a href="#">Activity: Circular Economy and the UN's Sustainable Development Goals</a>	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
<a href="#">Activity: How Plastic Waste Harms the Environment</a>	N/A	
<a href="#">Activity: Imagine a Waste-Free Economy</a>	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
<a href="#">Activity: Our Plastic Consumption Footprint</a>	N/A	
<a href="#">Activity: Plastic Remake</a>	N/A	
<a href="#">Activity: Plastic in Our Oceans</a>	N/A	
<a href="#">Activity: Sorting Your Waste</a>	N/A	
<a href="#">Activity: Taking Inspiration from Nature</a>	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
<a href="#">Activity: Types of Plastics</a>	N/A	
<a href="#">Activity: Why Do We Have Plastic Waste in the Environment?</a>	N/A	



Activity Name	Organizing Idea	Learning Outcome
<a href="#">Activity: All About Plastics</a>	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
<a href="#">Activity: Circular Economy and the UN's Sustainable Development Goals</a>	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
<a href="#">Activity: How Plastic Waste Harms the Environment</a>	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

<a href="#"><b>Activity: Imagine a Waste-Free Economy</b></a>	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
<a href="#"><b>Activity: Our Plastic Consumption Footprint</b></a>	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
<a href="#"><b>Activity: Plastic Remake</b></a>	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
<a href="#"><b>Activity: Plastic in Our Oceans</b></a>	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
<a href="#"><b>Activity: Sorting Your Waste</b></a>	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



<a href="#">Activity: Taking Inspiration from Nature</a>	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
<a href="#">Activity: Types of Plastics</a>	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
<a href="#">Activity: Why Do We Have Plastic Waste in the Environment?</a>	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 Name	Organizing Idea	Learning Outcome
<a href="#">Activity: All About Plastics</a>	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
<a href="#">Activity: Circular Economy and the UN's Sustainable Development Goals</a>	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: Systems in Action	D1. Relating Science and Technology to Our Changing World – Assess the social and environmental impacts of various systems, and evaluate improvements to the systems or alternative ways of meeting the same needs
		D2. Exploring and Understanding Concepts – Demonstrate an understanding of different types of systems and the factors that contribute to their safe and efficient operation
<a href="#">Activity: How Plastic Waste Harms the Environment</a>	D. Structures and Mechanisms: Systems in Action	D1. Relating Science and Technology to Our Changing World – Assess the social and environmental impacts of various systems, and evaluate improvements to the systems or alternative ways of meeting the same needs
		D2. Exploring and Understanding Concepts – Demonstrate an understanding of different types of systems and the factors that contribute to their safe and efficient operation
	E. Earth and Space Systems: Water Systems	E1. Relating Science and Technology to Our Changing World – Assess the impact of human activities and technologies on the sustainability of water resources

<a href="#">Activity: Imagine a Waste-Free Economy</a>	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: Systems in Action	D1. Relating Science and Technology to Our Changing World – Assess the social and environmental impacts of various systems, and evaluate improvements to the systems or alternative ways of meeting the same needs
		D2. Exploring and Understanding Concepts – Demonstrate an understanding of different types of systems and the factors that contribute to their safe and efficient operation
<a href="#">Activity: Our Plastic Consumption Footprint</a>	N/A	
<a href="#">Activity: Plastic Remake</a>	N/A	
<a href="#">Activity: Plastic in Our Oceans</a>	E. Earth and Space Systems: Water Systems	E1. Relating Science and Technology to Our Changing World – Assess the impact of human activities and technologies on the sustainability of water resources
		E2. Exploring and Understanding Concepts – Demonstrate an understanding of the characteristics of Earth’s water systems and of factors that affect these systems
<a href="#">Activity: Sorting Your Waste</a>	D. Structures and Mechanisms: Systems in Action	D1. Relating Science and Technology to Our Changing World – Assess the social and environmental impacts of various systems, and evaluate improvements to the systems or alternative ways of meeting the same needs
<a href="#">Activity: Taking Inspiration from Nature</a>	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
<a href="#">Activity: Types of Plastics</a>	N/A	
<a href="#">Activity: Why Do We Have Plastic Waste in the Environment?</a>	D. Structures and Mechanisms: Systems in Action	D1. Relating Science and Technology to Our Changing World – Assess the social and environmental impacts of various systems, and evaluate improvements to the systems or alternative ways of meeting the same needs
		D2. Exploring and Understanding Concepts – Demonstrate an understanding of different types of systems and the factors that contribute to their safe and efficient operation
	E. Earth and Space Systems: Water Systems	E1. Relating Science and Technology to Our Changing World – Assess the impact of human activities and technologies on the sustainability of water resources