

PLASTICS WORKSHOP - ACTIVITY SPECIFIC CURRICULAR LINKS: BRITISH COLUMBIA

Course / Grade	B.C. Curriculum Type	B.C. Curriculum Link	Program Link	Pre-1. Plastics Pre-Lesson & Mind Map	Main-1. Plastic Pollution Presentation	Activity 1. Monitor Microplastics	Activity 2. Wrangle That Waste Board Game	Activity 3. Plastics Policy Simulation	Post-1. Reflection, Call to Action & Post-Mind Map
Science 8	Big Idea	Life processes are performed at the cellular level.	Ingestion of microplastics; bioaccumulation of plastic in internal systems; organism health	X	X	X			X
	Content	Characteristics of life	Effects of plastic ingestion and bioaccumulation on living organisms	X	X	X			X
Social Studies 8	Big Idea	Human and environmental factors shape changes in population and living standards.	Industrialization of plastic; plastic production; plastic use and waste; environmental impacts	X	X		X	X	X
Career-Life Education 8-9	Big Idea	The value of work in our lives, communities, and society can be viewed from diverse perspectives.	Stewardship; environmental justice; local and global needs and opportunities; eco-careers	X	X	X	X	X	X
Science 9	Big Idea	A systems approach to sustainability sees all matter and energy as interconnected and existing in dynamic equilibrium.	Interconnected systems; Earth systems; system disruption; human-environment interactions; anthropogenic impacts; bioaccumulation and biomagnification	X	X	X	X	X	X
	Content	Matter cycles within biotic and abiotic components of ecosystems	Movement of plastic and microplastics through natural systems; pollution pathways; bioaccumulation	X	X	X	X		X
		Sustainability of systems	System disruption; waste management; sustainable choices; conservation actions	X	X		X	X	X
		First Peoples knowledge of interconnectedness and sustainability	Stewardship; interconnectedness; sustainability; disproportionate impacts of plastic pollution on Indigenous communities	X	X		X	X	X
Social Studies 9	Big Idea	The physical environment influences the nature of political, social, and economic change.	Waste regulations and policies; human-environment interactions; plastic	X	X		X	X	X

			pollution as a social, environmental, and policy issue						
Science 10	Content	Practical applications and implications of chemical processes	Polymer chemistry; water quality; environmental remediation; synthetic versus natural materials	X	X	X			X
Social Studies 10	Content	Environmental, political, and economic policies	Plastic regulations; water quality; conservation; climate change; policy-based solutions		X		X	X	X
Career-Life Education 10	Content	Value of volunteerism for self and community	Social responsibility; youth action opportunities; community-based solutions; stewardship	X	X		X	X	X
Earth Sciences 11	Content	Influences of large bodies of water on local and global climates	Ocean-climate connections; ocean currents; migration of plastic through marine systems	X	X		X		X
	Big Idea	Earth materials are changed as they cycle through the geosphere and are used as resources, with economic and environmental implications.	Plastic production; plastic life cycle; resource use; pollution; environmental and economic implications	X	X	X	X	X	X
Environmental Science 11	Big Idea	Complex roles and relationships contribute to diversity of ecosystems.	Food chains; species balance; plastic pollution effects on marine ecosystems and biodiversity	X	X	X	X		X
		Humans can play a role in stewardship and restoration of ecosystems.	Conservation actions; stewardship principles; responsible waste management; student action	X	X		X	X	X
Environmental Science 12	Big Idea	Human actions affect the quality of water and its ability to sustain life.	Pollution; water quality; plastic waste entering aquatic systems; impacts on organism and ecosystem health	X	X	X	X		X
		Human activities cause changes in the global climate system.	Responsible waste management; pollution; sustainable individual choices; plastic production and disposal	X	X		X	X	X
		Living sustainably supports the well-being of self, community, and Earth.	Community action; Indigenous stewardship; sustainable choices; waste reduction; environmental responsibility	X	X		X	X	X

Specialized Science 12	Big Idea	Climate change impacts biodiversity and ecosystem health.	Habitat degradation; bioaccumulation and biomagnification; species health; ecosystem impacts	x	x	x	x		x
Human Geography 12	Big Idea	Human activities alter landscapes in a variety of ways.	Coastal communities; species habitat; pollution; plastic waste movement through human and natural systems	x	x		x	x	x
Political Studies 12	Big Idea	Understanding how political decisions are made is critical to being an informed and engaged citizen.	Single-use plastic prohibition regulations in Canada; global plastic laws; policy debate; stakeholder perspectives		x			x	x