Curriculum Connections Overview:

Climate Change



Metro Vancouver's K-12 School and Youth Leadership Programs align strongly with the BC curriculum and provide support and resources for teachers, students, and youth leaders to explore sustainability concepts and topics. Find out more at **metrovancouver.org/school-programs**.

Science	Big Ideas	Content
K	Daily and seasonal changes affect all living things	 Weather changes Seasonal changes Living things make changes to accommodate daily and seasonal cycles First Peoples knowledge of seasonal changes
GRADE 1	Observable patterns and cycles occur in the local sky and landscape	 Common objects in the sky The knowledge of First Peoples: Shared First Peoples knowledge of the sky, Local First Peoples knowledge of the local landscape, animals and plants, Local First Peoples understanding and use of seasonal rounds Local patterns that occur on Earth and in the sky
GRADE 4	All living things sense and respond to their environment The motions of the Earth and the moon cause observable patterns that affect living and non-living systems Energy can be transformed	 Biomes as large regions with similar environmental features Local changes caused by Earth's axis, rotation, and orbit The effects of the relative positions of the sun, moon, and Earth including local First Peoples perspectives
GRADE 5	Earth materials change as they move through the rock cycle and can be used as natural resources	 First Peoples concepts of interconnectedness in the environment The nature of sustainable practices around BC's resources First Peoples knowledge of sustainable practices
SCIENCE 7	Earth and its climate have changed over geological time	 Evidence of climate change over geological time and the recent impacts of humans: Physical records, Local First Peoples knowledge of climate change
SCIENCE 9	The biosphere, geosphere, hydrosphere, and atmosphere are interconnected, as matter cycles and energy flows through them	 The effects of solar radiation on the cycling of matter and energy Sustainability of systems First Peoples knowledge of interconnectedness and sustainability
SCIENCE 10	Energy is conserved, and its transformation can affect living things and the environment	 Transformation of energy Local and global impacts of energy transformations from technologies
EARTH SCIENCE 11	The transfer of energy through the atmosphere creates weather, and this transfer is affected by climate change The distribution of water has a major influence on weather and climate	 The hydrologic cycle Changes in the composition of the atmosphere due to natural and human causes Weather as the interaction of water, air, and energy transfer Solar radiation interactions and impacts on the energy budget Evidence of climate change First Peoples knowledge of climate change and interconnectedness Local and global ocean currents Influence of large bodies of water on local and global climates Effects of climate change on water sources
ENVIRONMENTAL SCIENCE 12	Human activities cause changes in the global climate system	 Changes to climate systems Impacts of global warming Mitigation and adaptations

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Social	Studies	Big Ideas	Content
GRADE 1	We shape the local environment, and the local environment shapes who we are and how we live Healthy communities recognize and respect the diversity of individuals and care for the local environment		 Relationships between a community and its environment Roles, rights, and responsibilities in the local community Natural and human-made features of the local environment
GRADE 2	Local actions have global consequences, and global actions have local consequences		 Relationships between people and the environment in communities Rights and responsibilities of individuals regionally and globally Roles and responsibilities of regional governments
GRADE 6	Complex global problems require international cooperation to make difficult choices for the future		The urbanization and migration of people
SOCIAL STUDIES	Human and environmental factors shape changes in population and living standards		Changes in population and living standards
SOCIAL STUDIES 10	The development of poinfluenced by economic and geographic factors		 Government, First Peoples governance, institutions, and ideologies Environmental, political, and economic policies Domestic conflicts and cooperation International conflicts and cooperation
HUMAN GEOGRAPHY 12	Demographic patterns and population distribution are influenced by physical features and natural resources Human activities change landscapes in a variety of ways A geographic region can encompass a variety of physical features and human interactions		 Relationships between cultural traits, use of physical space, and impacts on the environment Relationship between First Peoples and the environment Global agricultural practices Industrialization, trade and natural resource demands Factors behind increased urbanization and its influence on societies and the environment
PHYSICAL GEOGRAPHY 12	Natural processes have landscape and human so Interactions between hu atmosphere affect local and climate	ettlement man activities and the	 Structure of, feedback within, and equilibrium of natural systems Distinguishing features of the atmosphere, hydrosphere, cryosphere, lithosphere, biosphere, and anthroposphere Connections and interactions between the spheres Features and processes of gradation and their effects on human and natural systems Features and processes of gradation and their effects on systems Climate, weather, and interactions between humans and the atmosphere Natural resources and sustainability
urban studies 12	Decision making in urba planning requires balance economic, social, and er Urban planning decision government policies car the overall quality of life	cing political, nvironmental factors is and other n dramatically affect	 Functions of local and regional government Urban planning and urban design Decision making in the planning of cities and regions Contemporary issues in urban studies