

Curriculum Connections Overview: Regional Planning



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 metrovancover.org/school-programs.

Science

Big Ideas

Content

GRADE 2	Water sources, including local watersheds	<ul style="list-style-type: none"> Water sources, including local watersheds Water conservation
GRADE 3	Wind, water, and ice change the shape of the land	<ul style="list-style-type: none"> Major local landforms Local First Peoples knowledge of local landforms Observable changes in the local environment caused by erosion and deposition by wind, water, and ice
GRADE 4	All living things sense and respond to their environment	<ul style="list-style-type: none"> Biomes as large regions with similar environmental features
GRADE 5	Earth materials change as they move through the rock cycle and can be used as natural resources	<ul style="list-style-type: none"> Local types of earth materials First Peoples concepts of interconnectedness in the environment The nature of sustainable practices around BC's resources First Peoples knowledge of sustainable practices
GRADE 7	Earth and its climate have changed over geological time	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Matter cycles within biotic and abiotic components of ecosystems Sustainability of systems First Peoples' knowledge of interconnectedness and sustainability
ENVIRONMENTAL SCIENCE 11	Human practices affect the sustainability of ecosystems	<ul style="list-style-type: none"> Benefits of ecosystem services Human actions and their impact on ecosystem integrity
ENVIRONMENTAL SCIENCE 12	<p>Human actions affect the quality of water and its ability to sustain life</p> <p>Human activities cause changes in the global climate system</p> <p>Sustainable land use is essential to meet the needs of a growing population</p> <p>Living sustainably supports the well-being of self, community, and Earth</p>	<ul style="list-style-type: none"> Water quality parameters and bioindicators Availability and water use impacts Global water security: laws and regulation, conservation of water Changes to climate systems Impacts of global warming Mitigation and adaptations Soil characteristics and ecosystem services Land use and degradation Land management Personal choices and sustainable living Global environmental ethics, policy, and law

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Social Studies

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<p>GRADE 1</p>	<p>We shape the local environment, and the local environment shapes who we are and how we live</p> <p>Our rights, roles, and responsibilities are important for building strong communities</p> <p>Healthy communities recognize and respect the diversity of individuals and care for the local environment</p>	<ul style="list-style-type: none"> • Characteristics of the local community that provide organization and meet the needs of the community • Relationships between a community and its environment • Roles, rights, and responsibilities in the local community • Natural and human-made features of the local environment
<p>GRADE 2</p>	<p>Local actions have global consequences, and global actions have local consequences</p>	<ul style="list-style-type: none"> • How people's needs and wants are met in communities • Relationships between people and environment in different communities • Rights and responsibilities of individuals regionally and globally • Rights and responsibilities of regional governments
<p>GRADE 5</p>	<p>Natural resources continue to shape the economy and identity of different regions of Canada</p> <p>Canadian institutions and government reflect the challenge of our regional diversity</p>	<ul style="list-style-type: none"> • Levels of government (First Peoples, federal, provincial, and municipal), their main functions, and sources of funding • Participation and representation in Canada's system of government • Resources and economic development in different regions of Canada • First Peoples land ownership and use
<p>GRADE 6</p>	<p>Complex global problems require international cooperation to make difficult choices for the future</p>	<ul style="list-style-type: none"> • The urbanization and migration of people
<p>SOCIAL STUDIES 8</p>	<p>Human and environmental factors shape changes in population and living standards</p>	<ul style="list-style-type: none"> • Changes in population and living standards
<p>SOCIAL STUDIES 10</p>	<p>The development of political institutions is influenced by economic, social, ideological, and geographic factors</p>	<ul style="list-style-type: none"> • Government, First Peoples governance, political institutions, and ideologies • Environmental, political, and economic policies
<p>HUMAN GEOGRAPHY 12</p>	<p>Demographic patterns and population distribution are influenced by physical features and natural resources</p> <p>Human activities change landscapes in a variety of ways</p> <p>A geographic region can encompass a variety of physical features and human interactions</p>	<ul style="list-style-type: none"> • 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 • Relationships between natural resources and patterns of population settlement and economic development

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<p>PHYSICAL GEOGRAPHY</p> <p>12</p>	<p>Natural processes have an impact on the landscape and human settlement</p> <p>Interactions between human activities and the atmosphere affect local and global weather and climate</p>	<ul style="list-style-type: none"> • 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 • Characteristics of global biomes, including climate, soil, and vegetation • Features and processes of the anthroposphere and their effects on natural systems • Natural resources and sustainability
<p>URBAN STUDIES</p> <p>12</p>	<p>Decision making in urban and regional planning requires balancing political, economic, social, and environmental factors</p> <p>Urban planning decisions and other government policies can dramatically affect the overall quality of life in cities</p>	<ul style="list-style-type: none"> • Urbanization as a global phenomenon • Historic settlement patterns in urban centres • Local and regional governance in B.C. and relationships with other levels of government • 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