

## Water Lesson – All About Treatment

Curriculum Connections for Grade 8		
Grade	Subject & Unit	Specific Expectations
8	<b>Science &amp; Technology</b> Understanding Life Systems: Structures & Mechanisms: Fluids	1.2 Assess the impact of fluid spills on society and the environment, including the cost of the cleanup and the effort involved
	Understanding Life Systems: Structures & Mechanisms: Water Systems	1.1 Evaluate personal water consumption, compare it with personal water consumption in other countries, and propose a plan of action to reduce personal water consumption to help address water sustainability issues  1.2 Assess how various media sources address issues related to the impact of human activities on the long-term sustainability of local, national, or international water systems  2.2 Investigate how municipalities process water (e.g. obtain it, test it and treat it) and manage water (e.g. distribute it, measure consumption and dispose of wastewater)
	<b>History &amp; Geography</b> Global Settlements: Patterns & Sustainability	A 1.3 describe possible features of a sustainable community in the future (e.g., energy-efficient buildings, use of renewable sources of energy, a comprehensive public transportation system, community gardens, roof gardens, green canopy, naturalized parks with native species, programs for waste and water recycling), and analyse some challenges associated with creating such a community (e.g., cost, population growth, increasing urbanization, continued dependence on fossil fuels)  A 3.5 describe various ways in which human settlement has affected the environment (e.g., water pollution from industry, agriculture, human waste; air pollution from vehicle and industrial emissions; soil contamination from pesticides, industrial by-products, garbage dumps; deforestation and loss of habitat from expanding settlement; loss of agricultural land to urban sprawl; light pollution from large cities; disruption of migratory routes of different species; desertification from unsustainable agricultural practices)

		A 3.6 describe some practices that individuals and communities have adopted to help make human settlements more sustainable (e.g., reducing water use, increasing recycling and composting, limiting the construction of housing on land that could be used for agriculture, using public transit, planting and maintaining trees)
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