

BRING BACK THE BROOKIES

Ontario Science and Technology Curriculum Connections

Essential interactions and restoration approaches within the Twelve Mile Creek watershed provide a rich case study to support learning. The Bring Back the Brookies video series, website material and associated outdoor activities align with research and investigation in the following Grade 7, 8 and 9 units of the Ontario Science and Technology Curriculum.

Grade Level and Topic	Big Idea
Grade 7: Interactions in the Environment	<ul style="list-style-type: none"> ● Ecosystems are made up of biotic (living) and abiotic (non-living) elements, which depend on each other to survive. ● Ecosystems are in a constant state of change. The changes may be caused by nature or by human intervention. ● Human activities have the potential to alter the environment. Humans must be aware of these impacts and try to control them.
Grade 7: Heat in the Environment	<ul style="list-style-type: none"> ● Heat has both positive and negative effects on the environment.
Grade 8: Water Systems	<ul style="list-style-type: none"> ● Water is crucial to life on Earth. ● Water systems influence climate and weather patterns. ● Water is an important resource that needs to be managed sustainably.
Grade 9 Science SNC1D: Biology: Sustainable Ecosystems	<ul style="list-style-type: none"> ● Ecosystems are dynamic and have the ability to respond to change, within limits, while maintaining their ecological balance ● People have the responsibility to regulate their impact on the sustainability of ecosystems in order to preserve them for future generations.
Grade 9 Science SNC1P: Biology: Sustainable Ecosystems	<ul style="list-style-type: none"> ● Ecosystems consist of a variety of components, including, in many cases, humans. ● The sustainability of ecosystems depends on balanced interactions between their components. ● Human activity can affect the sustainability of aquatic and terrestrial ecosystems.