

Lesson Outline

| TIME | ACTIVITY | LOCATION | MATERIALS |
|------------|---------------------------------------|--------------------------|----------------------------|
| 30 minutes | Your Neck of the Woods | Classroom | Laptop, tablet |
| 30 minutes | Letter of Interest – Volunteer Credit | Classroom | |
| 3 hours | Be The Change | Classroom/ schoolyard | Garden tools/native plants |
| 4 hours | Ecosystem Service | | |
| | Co-op credit / extension exercise | | |

Curriculum Expectations Grade 9

Science

Grade 9 Academic (SNC1D)

A. Scientific investigation skills and career exploration

A2 Career exploration

A2.1 Identify and describe a variety of careers related to the fields of science under study (e.g., astrophysicist, geophysicist, conservation officer, park warden, fire protection engineer, hydrologist, electrician) and the education and training necessary for these careers

A2.2 Identify scientists, including Canadians (e.g., David Suzuki, Howard Alper, Roberta Bondar, Kenneth Hill), who have contributed to the fields of science under study

population growth will create greater challenges on nature to maintain biodiversity and health of its ecosystems.

As a resident in this remarkable area, your actions can have a significant impact on the health of its ecosystem. Your garden is just one of many spaces you can access to help restore lost habitat, yet it could be what helps to tip the scale in creating a healthy future for our area.

Creating a healthy future for our area, and the wildlife that call it home, is a win-win situation. Have fun making your schoolyard garden part of the solution. Your class can grow life-sustaining habitats and resilient landscapes, one schoolyard at a time. Perhaps you could venture into a garden project at home too! Together we can all grow gardens that will be places to host native species. For your reference, a list of native species can be found on page 9.

There are many benefits to establishing native plant gardens.

The value of the seed itself is incredible. Wildflower gardens serve as high-quality pollinator forage habitat, providing native blooms all season. They are drought resistant and low maintenance. Planned out properly they can bloom from spring to fall.

Here are two additional options your class could get involved in:

- In the Zone provides the tools needed for anyone to gradually transform outdoor spaces into healthy habitats for native wildlife. <https://inthezonegardens.ca/>
- receive advice from wildlife and gardening experts on how to cultivate habitat for warblers, frogs, owls, butterflies, bees and more. <https://davidsuzuki.org/take-action/act-locally/butterflyway/>

Native Species List

Here is a list of native species taken from the Norfolk Seed Strategies overview:

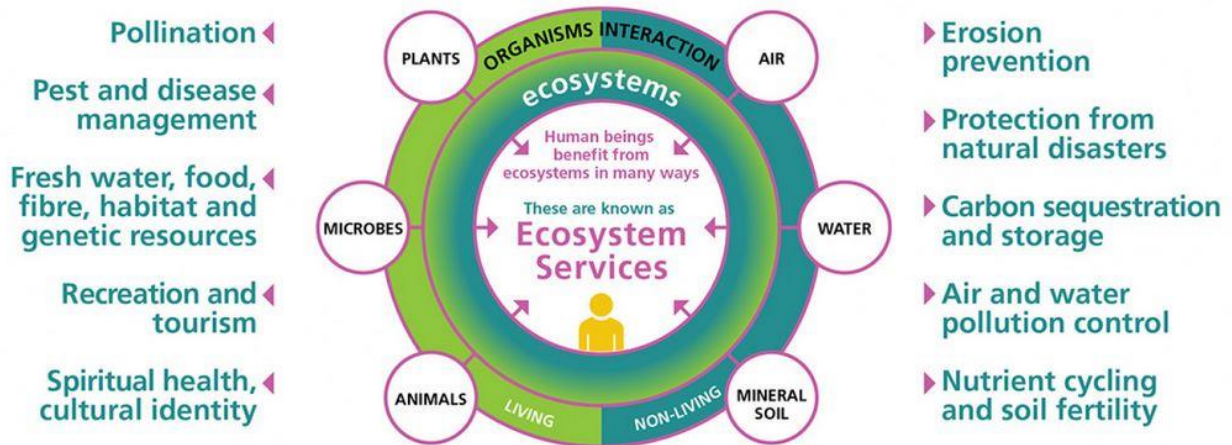
- Blue Lupine (*Lupinus perennis*)
- Butterfly Milkweed (*Asclepias tuberosa*)
- Round Leaved Shadbush (*Amelanchier sanguinea*)
- Witch Hazel (*Hammamelis virginiana*)
- Venus' Looking Glass (*Triodans perfoliata*)
- Whorled Milkweed (*Asclepias verticillata*)
- Rock Elm (*Ulmus thomasii*)
- Intermediate Pinweed (*Lechea intermedia*)
- Sand Violet (*Viola sagittata*)
- Early Saxifrage (*Micranthes virginica*)
- Prairie Chord Grass (*Spartina pectinata*)
- River Bulrush (*Bulbenoscoens fluviatalis*)
- Blue Eyed Grass (*Sisyrinchium montanum*)
- Wild Crab Apple (*Malus coronaria*)
- Carolina Wood Vetch (*Viccia caroliniana*)
- Leatherwood (*Dirca palustris*)
- Wood Phlox (*Phlox divaricata*)
- Hills's Oak (*Quercus ellipoidalis*)
- Wood Betony (*Pedicularis canadensis*)
- Dwarf Blazing Star (*Liatirs cylindracea*)
- Running Tick Trefoil (*Desmodium rotundofolium*)
- Hairy Bushclover (*Lespedeza hirta*)
- Panicked Tick Trefoil (*Desmodium paniculatum*)
- Kalm's St. John's Wort (*Hypericum kalmii*)
- Shining Sumac (*Rhus copallina*)
- Poke Milkweed (*Asclepias exaltata*)
- Early Buttercup (*Ranunculus fascicularis*)
- Green Milkweed (*Asclepias virid*)

Ecosystem services.

Ecosystems are providers of goods and services that can not be provided any other way.

Extention lesson plans:

- [What is the value of an ecosystem](#)
- [Human Activity and the Environment: Measuring Ecosystem service in Canada](#)



Ecosystem Services diagram publish by Rob Underhill on August 26,2020

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