



curriculum links

Grade 4:

- Science and Technology
*Systems and Interactions/
Sustainability and Stewardship*



overview

Students study different types of fish living in Halton Region's waterways, including 16 Mile Creek, which flows through Halton including Kelso, Bronte Creek and the Credit River, which flows through Halton Hills. Students examine the difference between habitats required for tolerant and sensitive fish species and the impact of pollution on the balance of aquatic life.

grade 4 expectations

Science and Technology

Overall Expectations

- ◆ Analyse the effects of human activities on habitats and communities
- ◆ Investigate the interdependence of plants and animals within a specific habitats and communities
- ◆ Demonstrate an understanding of habitats and communities and the relationship among the plants and animals that live in them

Specific Expectations

Relating Science and Technology to Society and the Environment

- ◆ Analyse the positive and negative impacts of human interactions with natural habitats and communities and evaluate ways of minimizing impacts.
- ◆ Identify reasons for the depletion or extinction of a particular fish species and propose ways of preventing this from happening.

Developing Investigation and Communication Skills

- ◆ Use scientific inquiry to investigate ways in which the fish use their habitat to meet important needs such for food, protection and spawning.

Understanding Basic Concepts

- ◆ Demonstrate an understanding of habitats as areas that provide plants and animals



Fish of Halton's Creeks



with the necessities of life (i.e. food, water, air, space and light).

- 💧 Identify factors that affect the ability of the fish to survive in their habitat (Six Mile Creek).
- 💧 Identify factors that affect the ability of the fish to survive in a specific habitat.
- 💧 Demonstrate an understanding of a community as a group of interacting species sharing a common habitat.

key terms

Environmentally Sensitive fish - fish that can only live in healthy water that is cool in temperature, has lots of oxygen and shade.

Environmentally Tolerant fish - fish that can live less healthy water where there are warmer temperatures, less oxygen and less shade.

