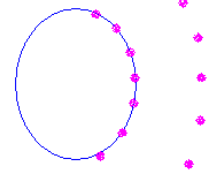
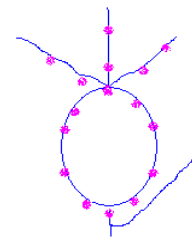
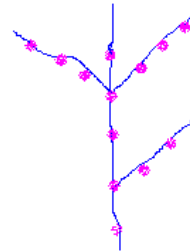


curriculum links

Grade 5:

- ◆ Health and Physical Education:
Fundamental Movement Skills
- ◆ Canada and World Connections:
Features of Communities Around the World



overview

This activity is designed to teach the participants about water quantity and quality issues related to streams and ponds. This activity allows students to demonstrate an understanding of the role storm water ponds play in relation to water quality and quantity by incorporating lessons on increased runoff from development, contaminants, rate of flow, erosion, and buffer zones.

grade 5 expectations

Science and Technology

Understanding Earth and Space Systems: Conservation of Energy and Resources

Overall Expectations

- ◆ Analyze the immediate and long-term effects of energy and resource use on society and the environment and evaluate options for conserving energy and resources

Specific Expectations

Relating Science and Technology to Society and the Environment

- ◆ Analyse the long-term impacts on society and the natural environment of human uses of energy and natural resources, and suggest ways to reduce these impacts.
- ◆ Evaluate the effects of various technologies on energy/resource consumption.

Understanding Basic Concepts

- ◆ Identify renewable and non-renewable sources of energy

key terms



The Power of Water



Stormwater Management Pond (SWMPs) - Designed to collect runoff from the local storm sewer system, provide treatment to trap the pollutants, and then slowly release treated water back to our natural waterways. SWMPs are not intended or maintained for recreational use. For the health and safety of the public, several activities are prohibited including but not limited to: swimming or wading, skating, boating, and fishing.

Watershed - The area of land that catches rain and snow and drains or seeps into a marsh, stream, river, lake or groundwater.

Confluence – where more than one reach of river or body of water comes together. This is a point of higher flow.

Buffer zone - The natural vegetation surrounding a pond or along a river provides a natural buffer and assists in the treatment of stormwater runoff. |

Erosion –displacement or movement of solids (sediment, soil, rock) by water movement. A certain amount of erosion is natural and, in fact, healthy for the stream, however, too much can lead to damage to the stream health.

