



Wonders of Water
Grade 5
Junior Program: Forces of Water



Description:

Students will be learning about their local watershed and the structures that deliver water from the Otonabee River to their homes and schools. Students will work in groups and use technological problem-solving skills to construct a water tower. They will then create their own watershed and evaluate the impact of society and the environment on structures and natural systems.

Curriculum Links - Grade 5 Understanding Structures and Mechanisms: Forces Acting on Structures and Mechanisms

Overall Expectations:

2. Analyse social and environmental impacts of forces acting on structures and mechanisms
3. Investigate forces that act on structures and mechanisms

Specific Expectations:

1.2 Evaluate the impact of society and the environment on structures and mechanisms, taking different perspectives into account, and suggest ways in which structures and mechanisms can be modified to best achieve social and environmental objectives

2.4 Use technological problem-solving skills to design, build and test a frame structure that will withstand the application of an external force or a mechanical system that performs a specific function

3.2 Identify external forces acting on a structure, and describe their effects on the structure, using diagrams

Key Vocabulary:

Watershed
Compression
Stakeholder
Floodplain
External forces