



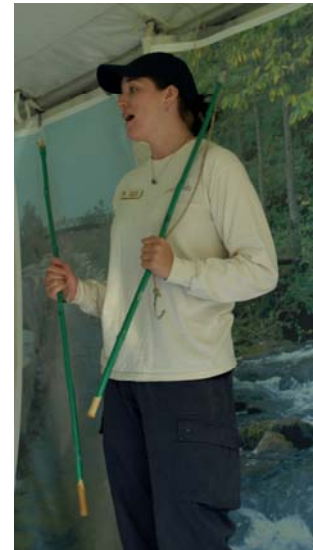
## curriculum links

### Grade 3:

- Science and Technology  
*Understanding Structures and Mechanisms*

## overview

In this activity, students will observe the different materials used in construction of water mains, the role of material type and water pressure in a water main breaks, and how water mains can be repaired.



## grade 3 expectations

### Science and Technology

#### Understanding Structures and Mechanisms: Strong and Stable Structures

##### Overall Expectations

- Assess the importance of form, function, strength, and stability in structures through time;
- Investigate strong and stable structures to determine how their design and materials enable them to perform their load-bearing function;
- Demonstrate an understanding of the concepts of structure, strength, and stability and the factors that affect them.

##### *Relating Science and Technology to Society and the Environment*

- Assess effects of strong and stable structures on society and the environment

##### *Understanding Basic Concepts*

- Define a structure as a supporting framework, with a definite size, shape, and purpose, that holds a load;
- Identify properties of materials that need to be considered when building structures;
- Describe ways in which different forces can affect the shape, balance and or position of structures

## key terms

**Water Main** - the principal underground pipe for moving water to residential and business properties

