



## Water for the World

The water workshop teaches students about the water resource in Alberta. Students will be able to list the contributing factors of the 2013 Alberta flood. Students will be able to discuss sedimentation and other contaminants resulting from flood water of the 2013 event. Students will conduct a water treatment exercise and will be able explain the science behind the water treatment process. We will discuss solutions to local and international water quality issues with United Nations Sustainable Development Goals in mind. We will leave the students with a goal which they will work together to achieve.

### Presentation Outline:

1. Identify components of the Alberta water resource.
2. Understand the contributing factors of the 2013 Alberta flood.
3. Discuss turbidity and contamination in flood waters.
4. List components of an industrial water treatment processes.
5. Conduct a water clarification exercise.
6. Explore water quality issues in local and international communities.
7. Understand United Nations goals for addressing water and sanitation.
8. Take part in the improvement of water quality issues at home or abroad.



### Links to Alberta Curriculum:

The workshop ties into the Alberta Science Curriculum while addressing learner skills and attitudes. The workshop relates best to the following grades and their topics.

Grade	Topic
8	E
11	A

- **Duration:** 50-70 minutes
- **Cost:** \$5 per student