



TSAG Source Water Presentation Options

Option 1:

CLASSROOM PRESENTATION for grades 4-6 (or 7-12 if interested)

(YEAR-ROUND - INDOORS)

30 to 40 MINUTES

Introduction to watersheds and drinking water health using a watershed model to get students thinking about threats to drinking water quality and the importance of water protection, treatment, and conservation. We can also invite guest speakers such as School/Community Elders, Water Treatment Plant Operators, TSAG Circuit Rider Trainers, Community Health Representatives, Environmental Health Officers, Environmental Monitors, etc. to talk about water in the community and/or their careers in water health.

**Note: If the teacher/school would like us to do back-to-back 30-40 min classroom presentations for multiple classes, then please request to book one classroom (preferably with a sink, paper towel, large table, etc.) for the duration of the presentations/day.*

Option 2:

MODIFIED WATER FIELD DAYS for grades 8-12

(YEAR-ROUND - IN THE CLASSROOM)

1.5 to 2 HOURS

Students learn about water in their community through hands-on demonstrations in the classroom. Presentations include an introduction to watersheds and water health/quality using models, chemistry, and bugs to get students thinking about threats to drinking water quality and the importance of water protection, treatment, and conservation. We can also invite guest speakers such as School/Community Elders, Water Treatment Plant Operators, TSAG Circuit Rider Trainers, Community Health Representatives, Environmental Health Officers, Environmental Monitors, etc. to talk about water in the community and/or their careers in water health.

**Note: Please try to book in science room/lab (if available) preferably with a sink, paper towel, large table, etc.*

Option 3:

WATER FIELD DAYS for **grades 8-12 ONLY**

(CLASSROOM/FIELD TRIP TO NEARBY STREAM/LAKE BETWEEN APRIL-OCTOBER ONLY - OUTDOORS)

3 to 4 HOURS – Half day or full day depending on their interest

Classroom (1 HOUR)

- Introduction and watershed model, careers in water health
- Water treatment plant tour (need approval from Operator)

Stream/Lake site (2-2.5 HOURS)

- Site diagrams
- Water chemistry and testing
- Invertebrate (bug) collecting and identification

*For water field days in an outdoor setting, the school is responsible for organizing transportation to/from stream/lake site, acquiring permission from parents/guardians, and student supervision in the classroom and at the activity site.

Presentations applicable to Alberta Science Curriculum Topics

Presentation Options:	Watershed Model	Watershed Modified	Water Field Day
Alberta Science Curriculum Topics:			
Grade 4: Waste & Our World			
Grade 4: Plant Growth & Changes	✓	✓	
Grade 5: Wetland Ecosystems	✓	✓	
Grade 7: Interactions & Ecosystems	✓	✓	
Grade 8: Freshwater & Saltwater Systems	✓	✓	✓
Grade 9: Biological Diversity		✓	✓
Grade 9: Environmental Chemistry		✓	✓
Grade 10: Earth Sciences		✓	✓
Biology 20: Ecosystems & Photosynthesis		✓	✓
Chemistry 20: Acids & Bases		✓	✓
Biology 30: Population & Community Dynamics		✓	✓
Career & Technology Foundations		✓	✓