

## Water Watchers

(Water Availability, Water Cycle, Pollution Protection)

### 1. Water Basics (10 min)

- Water Molecule: 2 hydrogens, 1 oxygen; Mickey Mouse molecule
- States of matter (liquid, solid, vapor/gas)
- Water availability
  - Water on Earth: 97% salty, 3% fresh, 2% glaciers, 1% clouds/pollution, only 0.03% fresh and available for drinking
  - Demonstration of water amounts

### 2. The Water Cycle and Supply (20 min)

- How the water cycle works (Water cycle poster)
- Incredible Journey Water Cycle Dice Game
  - Students simulate the movement of water within the water cycle
  - Students roll the cube to determine where their water drop will land and collect a colored bead from that station. At the end, students will have a bracelet of colored beads representing the variety of pathways that water can follow
- Oscillating clock reaction experiment – for larger groups in place of water cycle game
- How Colorado Springs Utilities gets water to you – visual journey

### 3. Pollution and Protection (20 min)

- Storm Water Soup activity
  - Students learn how everyday behaviors impact water quality
- Student actions to protect and save water brainstorm session

### 4. Question & Answer (5 min)

- Each student will be given water saving tips and toilet tabs to check for leaks

**Objective:** Learn the properties of water, how we depend on weather for our water supply and best ways to use water wisely.

**Target grades:** 4<sup>th</sup> - 5<sup>th</sup> grade

**Time commitment:** 55 minute presentation; optional pre/post activities: [Get to Know Your H<sub>2</sub>O worksheet](#), [Pollution Patrol worksheet](#), [Water Watchers Student Worksheet](#), [Teacher info and answer key](#)

**Standard/ GLE Code:** SC.4.3.2, SC.5.3.4, SC.5.3.5

Total program time: 55 minutes