

## Water Wonders (States of Matter, Weather, Conservation)

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### 1. Introduction (3 min)

- Colorado Springs Utilities provides water, electric, gas, and wastewater services.
- Introduce Dewey

### 2. Water Basics (15 min)

- Water Molecule: 2 hydrogens, 1 oxygen; Mickey Mouse molecule
- States of matter (liquid, solid, vapor/gas)
- States of matter movement activity
- Why water is important (all living things depend on water, 70% of your body is water)
- Water availability
  - Toss globe around and see where their thumbs land (water or land)
  - 70% of earth covered in water, 97% salt water/ 3% fresh (much of it frozen)

### 3. The Water Cycle/ Weather (15 min)

- How the water cycle works, review states of matter (water cycle poster)
- We depend on weather for our water supply
- Cloud in a bottle demo (Clouds are made of water vapor that condenses under low atmospheric pressure)
- Cloud cannon

### 4. How Does Springs Utilities Get Water to Your House? (15 min)

- Water source is snowmelt (water content of snow is 10%)
- Cup and measuring tape demo
- Bring in water from the Rocky Mountains (relay race – if time permits)

### 5. Conservation (5 min)

- Where is most water used?
- How can we save water? (Dewey's conservation game and posters)
  - Highlight- shorter showers, turning off faucet when brushing teeth or washing dishes, water-wise watering rules

### 6. Post Assessment (2 min)

- Postcard – write 3 things you learned about water today, water savings checklist

Total program time: 55 minutes

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

**Target grades:** 2<sup>nd</sup> grade, 3<sup>rd</sup> grade

**Time commitment:** 55 minute presentation; optional pre/post activities: [Get to Know Your H<sub>2</sub>O worksheet](#), [Water Warrior Activity Book](#)

**Standard/ GLE Code:** SC.2.1.1, 2.3.2, 3.3.1