

Water Systems Teacher Fellows Program

Update for Bellevue City Council October 24, 2016



Water Systems Teacher Fellows Program

Key Takeaways

- 1. Curriculum adopted by Bellevue School District
- 2. All 7th grade students (1,300) meet education goals
- 3. Students apply learning to help meet city goals
- 4. Program spawned the Water Systems Symposium



Program Structure

Pilot Year 2016-17

- 1. Select two Teacher Fellows for Bellevue
- 2. Support deep dive on water resource challenges
- 3. Align challenges with education standards
- 4. Focus learning on actual community impact
- 5. Advocate for district-wide adoption



Bellevue Outcomes

Year One 2016-2017

- All seven middle schools involved
- 2. 22 teachers engage 1,300 students
- 3. Education standards aligned
- 4. Water resource management goals aligned
- 5. Water systems thinking embedded in the curriculum
- Success transfers to other districts



Bellevue Teacher Fellows

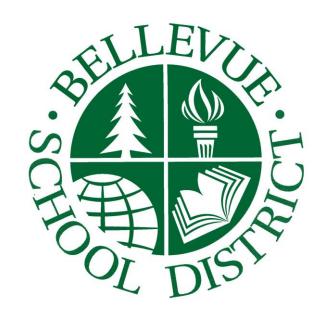
Maile Morgan
Chinook Middle School, Social Studies
Tamara Truax
International School, Social Studies

Bellevue District Leadership

Patty Shelton
Social Studies Curriculum Developer

Facilitation

Peter DonaldsonSustainability Ambassadors



This new 7th grade Water Systems Curriculum supports the District Initiative

"Commitment to the Community"

Local | Regional | Global



7th Grade Curriculum World Water Challenge

Year-long thematic weave of 3 water systems

- water supply
- wastewater treatment
- stormwater management



Pre-Test

24 Online Questions (True/False)
Class data is aggregated
Students analysis data
Engage in inquiry
Research "correct" answer
Build class wiki

Apply wiki to solve problems

| SAMPLE RESPONSES - Water Systems Pre-Test | TRUE | FALSE |
|--|------|-------|
| 1. Water scarcity affects about 4 percent of the world's people. | 33% | 67% |
| 7. As the human population in our region has dramatically increased over the last 20 years, the total amount of water consumed has also increased. | 87% | 13% |
| 8. The typical American uses about 100 gallons of water each day. | 58% | 42% |
| 9. The water footprint of a typical American is about 2,000 gallons a day. | 37% | 63% |
| 10. The cheapest way to meet our local water needs over the next several decades is to build more dams, reservoirs and pipes. | 51% | 49% |
| 18. Factories that use hazardous chemicals are the biggest source of pollution damaging Puget Sound. | 81% | 19% |
| 20. Rain gardens can successfully clean pollutants like car oil, antifreeze, grease, and lawn chemicals from getting into our streams. | 49% | 51% |
| 24. It's best to wash a car near the gutter so that the soapy water can go down the storm drain and not damage the environment. 9 | 47% | 53% |

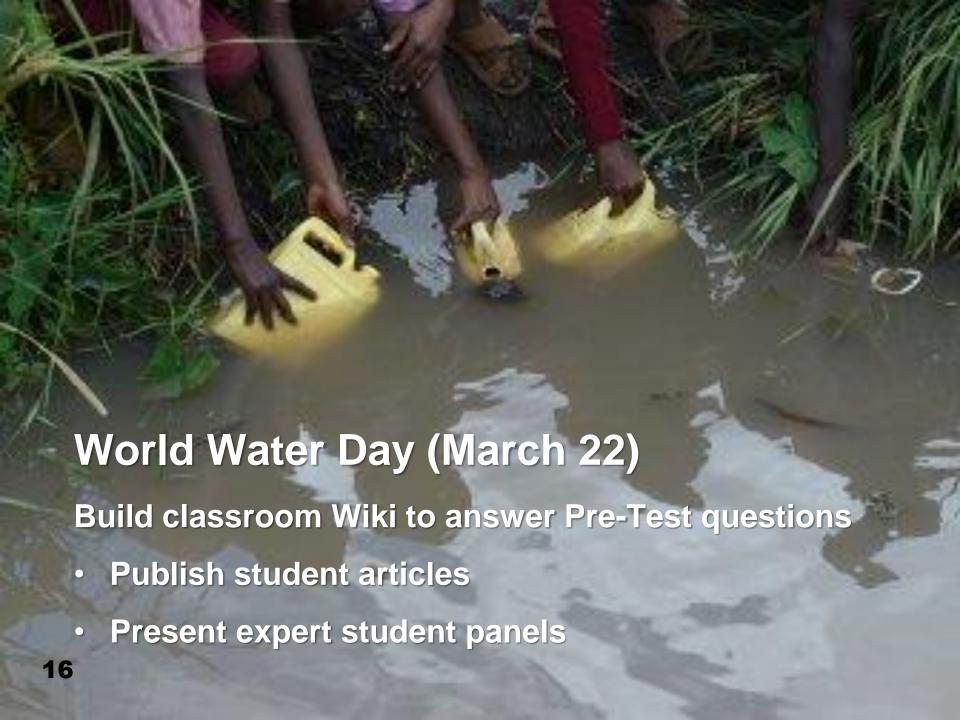
















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