

Activities to assist with Science Fair, Science Olympiad & Invention Convention

from

Project WET Curriculum and Activity Guide, Conserve Water Educators' Guide,
Healthy Water Healthy People, and WOW- Wonders of Wetlands

Adventures in Density <i>Experiment with density and explore examples of density in classic literature</i>	pg. 25	Project WET
H₂Olympics <i>Compete in a water olympics to investigate adhesion and cohesion</i>	pg. 30	Project WET
Is There Water on Zork? <i>Test the properties of water</i>	pg. 43	Project WET
What's the Solution? <i>Solve a crime while investigating the dissolving power of water</i>	pg. 54	Project WET
Aqua Bodies <i>Estimate the amount of water in a person, a cactus, or a whale contribute to a watershed</i>	pg. 63	Project WET
No Bellyachers <i>Show how pathogens are transmitted by water by play8ng a game of tag</i>	pg. 85	Project WET
People of the Bog <i>Construct a classroom bog</i>	pg. 89	Project WET
Capture, Store, and Release <i>Use a household sponge to demonstrate how wetlands get wet and how they contribute to a watershed</i>	pg. 133	Project WET
Get the Ground Water Picture <i>Create an "earth window" to investigate ground water systems</i>	pg. 136	Project WET
Just Passing Through <i>Mimic the movement of water down a slope</i>	pg. 166	Project WET
Water Models <i>Construct models of the water cycle and adapt them for different biomes</i>	pg. 203	Project WET
Energetic Water <i>Design devices to make water do work</i>	pg. 242	Project WET
Irrigation Interpretation <i>Model different irrigation systems</i>	pg. 254	Project WET

Where Are the Frogs?	pg. 279	Project WET
<i>Run a simulation and experiment to understand the effects of acid rain</i>		
Pucker Effect (The)	pg. 338	Project WET
<i>Simulate ground water testing to discover the source of contamination</i>		
Reaching Your Limits	pg. 344	Project WET
<i>"Limbo" to learn basic water quality concepts and standards development</i>		
Sparkling Water	pg. 348	Project WET
<i>Develop strategies to clean wastewater</i>		
Cold Cash in the Icebox	pg. 373	Project WET
<i>Create a mini-insulator to prevent an ice cube from melting</i>		
Water Conservation Invention Convention	pg. 201	Conserve Water
<i>Students examine the technology of water resources conservation and participate in a Water Conservation Invention Convention</i>		
Water Trouble on the High Plains	pg. 260	Conserve Water
<i>A more efficient form of irrigation helps out farmers and the Ogallala Aquifer</i>		
The Problem With Silt	pg. 282	Conserve Water
<i>How did the city planners in Louisville turn its Riverside Park into a showcase of the city's commitment to water conservation efforts?</i>		
It's Clear to Me!	pg. 10	Healthy Water Healthy People
<i>Illustrates the basics of solutions and mixtures, challenging students to create an example of several different solutions, mixtures, suspensions, and colloids.</i>		
From H to OH!	pg. 15	Healthy Water Healthy People
<i>Interactive demonstration of pH along with testing common items using a non-toxic, create-your-own pH indicator solution.</i>		
Pollution -Take It or Leave It!	pg. 21	Healthy Water Healthy People
<i>Whole-body exploration of how the hydrologic cycle works and how it affects water quality.</i>		
Stone Soup	pg. 35	Healthy Water Healthy People
<i>Alkalinity investigation illustrates the effects of buffering on acidic waters</i>		

- Carts and Horses** **pg. 42** **Healthy Water Healthy People**
Illustrates how the scientific method applies to water quality investigations
- A Snapshot in Time** **pg. 61** **Healthy Water Healthy People**
Investigate water quality data to illustrate the differences between a one time snapshot sample and monitoring samples over time and space.
- Turbidity or Not Turbidity** **pg. 83** **Healthy Water Healthy People**
Illustrates the possible causes and effects of sedimentation and turbidity
- Looks Aren't Everything** **pg. 99** **Healthy Water Healthy People**
Water treatment when camping or hiking can be a big issue. Participate in this detective mystery to discover how water can become contaminated.
- Setting the Standards** **pg. 107** **Healthy Water Healthy People**
We all live by standards-grades, taxes, interest rates-and especially drinking water quality. Participate in the EPA process to establish drinking water standards for a new contaminant-MTBE.
- Life and Death Situation** **pg. 125** **Healthy Water Healthy People**
Waterborne diseases are a major health threat to humans. Discover the symptoms and possible causes of many of these diseases in this activity.
- Invertebrates as Indicators** **pg. 174** **Healthy Water Healthy People**
Demonstrates the relationship between various macroinvertebrate pollution tolerances and their value in bioassessment of water quality in a stream.
- Going Underground** **pg. 187** **Healthy Water Healthy People**
Water contamination can happen in the ground water just as in surface water. Learn how it can happen and the challenges of cleaning it up.
- Treatment Plants** **pg. 120** **WOW-Wonders of Wetlands**
Demonstration: how plants take up nutrients and pollutants
- Water We Have Here?** **pg. 174** **WOW-Wonders of Wetlands**
Study physical and chemical features of water-pH, temperature, salinity, dissolved oxygen, turbidity, rate of flow, nutrient content