

H₂O THE WAY TO GO

Activities to assist with Science Fair , Science Olympiads and Invention Conventions from
Project WET, Conserve Water, Healthy Water Healthy People, WOW-Wonders of Wetlands

Activity	Page	Activity Guide
<p>Water Conservation Invention Convention <i>Students examine the technology of water resources conservation and participate in a Water Conservation Invention Convention</i></p>	201	Conserve Water
<p>Water Trouble on the High Plains <i>A more efficient form of irrigation helps out farmers and the Ogallala Aquifer</i></p>	260	Conserve Water
<p>The Problem With Silt <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></p>	282	Conserve Water
<p>It's Clear to Me! <i>Illustrates the basics of solutions and mixtures, challenging students to create an example of several different solutions, mixtures, suspensions, and colloids.</i></p>	10	Healthy Water Healthy People
<p>From H to OH! <i>Interactive demonstration of pH along with testing common items using a non-toxic, create-your- own pH indicator solution.</i></p>	15	Healthy Water Healthy People
<p>Pollution -Take It or Leave It! <i>Whole-body exploration of how the hydrologic cycle works and how it affects water quality.</i></p>	21	Healthy Water Healthy People
<p>Stone Soup <i>Alkalinity investigation illustrates the effects of buffering on acidic waters</i></p>	35	Healthy Water Healthy People
<p>Carts and Horses <i>Illustrates how the scientific method applies to water quality investigations</i></p>	42	Healthy Water Healthy People
<p>A Snapshot in Time <i>Investigate water quality data to illustrate the differences between a one time snapshot sample and monitoring samples over time and space.</i></p>	61	Healthy Water Healthy People

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<p>Turbidity or Not Turbidity <i>Illustrates the possible causes and effects of sedimentation and turbidity</i></p>	83	Healthy Water Healthy People
<p>Looks Aren't Everything <i>Water treatment when camping or hiking can be a big issue. Participate in this detective mystery to discover how water can become contaminated.</i></p>	99	Healthy Water Healthy People
<p>Setting the Standards <i>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.</i></p>	107	Healthy Water Healthy People
<p>Life and Death Situation <i>Waterborne diseases are a major health threat to humans. Discover the symptoms and possible causes of many of these diseases in this activity.</i></p>	125	Healthy Water Healthy People
<p><i>Demonstrates the relationship between various macroinvertebrate pollution tolerances and their value in bioassessment of water quality in a stream.</i></p>	174	Healthy Water Healthy People
<p>Going Underground <i>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.</i></p>	187	Healthy Water Healthy People
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Adventures in Density <i>Experiment with density and explore examples of density in classic literature</i>	25	Project WET
H₂Olympics <i>Compete in a water olympics to investigate adhesion and cohesion</i>	30	Project WET
Is There Water on Zork? <i>Test the properties of water</i>	43	Project WET
What's the Solution? <i>Solve a crime while investigating the dissolving power of water</i>	54	Project WET
Aqua Bodies <i>Estimate the amount of water in a person, a cactus, or a whale contribute to a watershed</i>	63	Project WET
No Bellyachers <i>Show how pathogens are transmitted by water by play8ng a game of tag</i>	85	Project WET
People of the Bog <i>Construct a classroom bog</i>	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>	133	Project WET
Get the Ground Water Picture <i>Create an "earth window" to investigate ground water systems</i>	136	Project WET
Just Passing Through <i>Mimic the movement of water down a slope</i>	166	Project WET
Water Models <i>Construct models of the water cycle and adapt them for different biomes</i>	203	Project WET
Energetic Water <i>Design devices to make water do work</i>	242	Project WET
Irrigation Interpretation <i>Model different irrigation systems</i>	254	Project WET

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Where Are the Frogs? <i>Run a simulation and experiment to understand the effects of acid rain</i>	279	Project WET
Pucker Effect (The) <i>Simulate ground water testing to discover the source of contamination</i>	338	Project WET
Reaching Your Limits <i>"Limbo" to learn basic water quality concepts and standards development</i>	344	Project WET
Sparkling Water <i>Develop strategies to clean wastewater</i>	348	Project WET
Cold Cash in the Icebox <i>Create a mini-insulator to prevent an ice cube from melting</i>	373	Project WET
Treatment Plants <i>Demonstration: how plants take up nutrients and pollutants</i>	120	WOW-Wonders of Wetlands
Water We Have Here? <i>Study physical and chemical features of water-pH, temperature, salinity, dissolved oxygen, turbidity, rate of flow, nutrient content.</i>	174	WOW-Wonders of Wetlands