



California Project WET Gazette

A project of the Water Education Foundation

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Volume XV, Issue I Winter 2010

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SNOW DAY!

Winter is a wonderful time of year to learn about the states and properties of water. This long held belief was reinforced recently after a warning breath from Old Man Winter sent a rare snowfall onto parts of the Central Valley floor and a colleague commented on how I would have once used this event with students. It was only after her comment that I considered my own reaction to this rare occurrence. I was outside flinging films of ice on the pavement just to hear the glassy clink of the shattering solid, laughing at the quizzical look of the dogs staring at their frozen water pot, jumping in puddles to see the muddy droplets of liquid spatter in patterns that would have made Jackson Pollock proud and exhaling deeply in the cold air to watch the condensing stream of vapor blow out in a jet like Godzilla's breath weapon- the only things missing were the toy soldiers and tanks of childhood!

The changing seasons are an unending source of curiosity for young minds given the chance to explore the outside world, though the work of Jack Frost and winter's fury always seems to generate the most wonder. So why not indulge that curiosity with a chance for students to look- or better yet go- outside and record their direct observations on the season with emphasis on the states and form of water? Changing the *'House of Seasons'* (*Project WET, p: 155*) into a *'Book of Seasons'* as suggested in the #5 of *'The Activity'* turns this into a running personal diary of observations on the changing seasons and a question generation source to launch weeks of science study. It could also become a personal log of growth and understanding, if students are encouraged to reflect on what they learn in the following activities.

It doesn't take a rocket scientist or a pacing guide to see my own fascination with the seasonal weather centered around forms of water, pre-loading the deck for a study on states of matter and a game of *'Water Match'* (*Project WET, p: 50*). Think of the sudden power of this activity as a learning tool when the activity not only begins with the teacher demonstrating water in all three states, but students linking their own personal examples from their trip to school or morning adventures outside. Students could also be enlisted to help the make *'Water Match'* cards highlighting local examples of water in various states for immediate, neighborhood relevance for engaging future classes in the activity.

Ice forms on the surface of puddles and water freezes from the surface down- an amazing fact that most kids are aware of soon after conscious thought kicks in, but too often lost in the blasé corner of the adult mind. An icy film on a puddle is an instant source of fascination from the occasional air bubble trapped underneath and ripples in the ice that look like frozen waves to the way it fractures and 'pops' as rocks rain down on it- and of course the breaking glass sound of shards shattering on pavement. An activity like *'Hangin Together'* (*Project WET, p: 35*) bridges the worlds of textbooks and childish play with an array of hands-on activities channeling that natural curiosity into a solid understanding of the unique characteristics of hydrogen bonding and polarity in water molecules.

Forget the suggested grade level and try marshmallows and sections of coffee stirrers with your elementary students if your room doesn't allow students to act as molecules- and enjoy the look of lights coming on as some students begin to understand the relationship of that big open area between water molecules in a solid and that film of ice on puddles. Try the student activity cards with hot and cold water

and let students try that frozen bottle activity on a 20 degree day- if a contained area could be secured outside the classroom for safety. Use the marshmallows in the dissolving experiment and save the stir stick sections for another activity!

Thermal conductivity can be a painful concept to learn. A winter cold snap brings out forms of curiosity that can make the cat cringe, so it may be wise to follow up the above activity on hydrogen bonding with *'Molecules in Motion'* (*Project WET*, p: 47) and an introduction to the concept of thermal conductivity- BEFORE a tongue gets stuck to a pole. The following link may be useful in grabbing student attention and helping them see the relevance of this seemingly abstract physical science concept (<http://www.livescience.com/mysteries/071218-tongue-flagpole.html>).

Density is an important factor in forming everything from dense valley fog to a snowball, but so too are the adhesive and cohesive properties of water resulting from hydrogen bonding. *'Adventures in Density'* (*Project WET*, p: 25) merges snippets of literature with hands-on science activities for a fuller understanding of this property in relation to the world outside- though students may be more interested in a snippet from the Popular Mechanics article link in *'Websites of Interest'* that describes what makes the best packing snow.

'H2Olympics' (*Project WET*, p: 30) lets students further explore the adhesive and cohesive properties of water - and is an activity notorious for competitive shenanigans by student and workshop participants alike! Fair- minded participants are driven to frustration by others who use every trick from holding water droppers sideways to count more drops to using oil, soap, changing water temperature- and salt from the density experiments- to disrupt any chance of fair competition. However, this mischievousness results in students and workshop participants coming to their own realizations of two things that are often tough to get across: The reason for standardized procedures in science experiments and the disruptive capability of common pollutants.

Water is so common we forgot what an amazing substance it is until something dramatic like a winter brings it to our attention in full glory- or terror as the case may be. As noted at the *'Water Dance'* link below, *'Water exhibits 66 known anomalies'* and highlighting some of these unique properties is a great way to engage the natural curiosity of young learners in the study of water properties, as is linking that knowledge to examples of immediate relevance in their lives. As the same website states to help conclude this article, *'Contrary to other "normal" liquids... Water also has an unusually large capacity to store heat, which stabilizes the temperature of the oceans, and a high surface tension, which allows insects to walk on water, droplets to form and trees to transport water to great heights.'*

WEBSITES OF INTEREST

USGS: Water Properties

<http://ga.water.usgs.gov/edu/waterproperties.html>

What are the physical and chemical properties of water that make it so unique and necessary for living things? When you look at water, taste and smell it - well, what could be more boring? Pure water is virtually colorless and has no taste or smell. But the hidden qualities of water make it a most interesting subject.

LIVESCIENCE.COM

<http://www.livescience.com/mysteries/071218-tongue-flagpole.html>

The next time someone triple-dog dares you to stick your tongue to a frozen metal pole — don't! Your tongue will be joined to the pole, and you'll have plenty of time to ponder the thermal conductivity of metal while you await the rescue squad.

The Dance Of Water

<http://www.sciencedaily.com/releases/2009/08/090811143716.htm>

Water is familiar to everyone—it shapes our bodies and our planet. But despite this abundance, the molecular structure of water has remained a mystery, with the substance exhibiting many strange properties that are still poorly understood. Recent work at the Department of Energy's SLAC National Accelerator Laboratory and several universities in Sweden and Japan, however, is shedding new light on water's molecular idiosyncrasies, offering insight into its strange bulk properties.

Water Drop at 2000 Frames per Second

<http://www.flixxy.com/water-drop.htm>

Watch the 2-minute video that shows a drop of water falling into a puddle at 2000 frames a second. You will see something totally unexpected. As one viewer commented on this video, *'Although I have often seen film or video such as this, especially from "Doc" of M.I.T., it is the first time the physics of the event were explained to me!'*

POPULAR MECHANICS

<http://www.popularmechanics.com/outdoors/sports/4296803.html>

Perhaps you've gone outside on snowy days planning to surprise a friend (or enemy) with a snowball in

the chest, only to find that the powdery stuff slips through your fingers. Or maybe you're always on the losing side of snowball wars, ambushed by better prepared and armed forces. Well, this year PM has your back—we asked snow experts to tell us what makes the best packing snow, how to build a solid snow fort and what tools you can use to dominate this winter.

USGS: AN EYE ON CLIMATE CHANGE <http://www.usgs.gov/corecast/details.asp?ep=85>

Attention citizen scientists: We need your help watching the way the world changes! For nature, timing is everything. So how does climate change affect the timing of things like flowers blooming and animals migrating, and why is this so important? Learn more, and find out how YOU can help us by observing the world around you from USGS scientist Jake Weltzin, Director of the National Phenology Network.

WATER FACTS & FUN <http://www.publicaffairs.water.ca.gov/education/catalog.cfm>

The California Department of Water Resources has a new color poster illustrating how water travels from mountain to ocean and how it is used for many purposes along the way. This 26" x 26" poster is available through the on-line catalog. All of the materials are available at no cost to teachers.

GLOBAL ACCESS TO USGS EARTH IMAGERY <http://landsat.usgs.gov/>

Scientists and decision makers will soon have unrestricted global access at no charge to the USGS Landsat archive, the world's most extensive collection of continuously acquired land imagery. The full collection is expected to be available online, for the first time with no user fees, by the end of this year.

USGS: VIDEO and IMAGE GALLERY <http://gallery.usgs.gov>

Earth science images and videos are available at your fingertips at the new USGS Video and Image Gallery. Arctic glaciers, hurricane flooding, and grizzly bears are just a few of the topics from around the globe captured in the gallery with high-quality, downloadable content. These free media can be reproduced in blogs, news stories, school projects and more — just remember to give proper credit to the USGS, please!

CALIFORNIA WATER RESOURCES <http://ca.water.usgs.gov>

USGS Water Resources of California: real-time stream flow data/current & archived water data/ CA on-line reports of current projects/ current issues/highlights/upcoming events. For water education links go to: <http://ca.water.usgs.gov/education.html>

PROFESSIONAL DEVELOPMENT OPPORTUNITIES

January 23, 2009

San Diego County: El Cajon

SAN DIEGO COUNTY EDUCATORS! The Helix Water District invites you to join their superb education staff at the Water Conservation Garden to experience Project WET activities in action. You will have the opportunity to experience great water education activities, tour the garden and walk away with a guide filled with activities that can be used in the classroom or the garden! *To register, please contact Kate Breece at (619) 667.6270 -OR- kate.breece@helixwater.org.*

January 30, 2010

Contra Costa County: Los Vaqueros Reservoir

CONTRA COSTA COUNTY EDUCATORS! The Contra Costa Water District and City of Brentwood, Public Works Department invite you to a Project WET workshop in the beautiful setting of Los Vaqueros Reservoir. All participants will receive lunch, a wonderful hand-on educational experience and walk away at the end of the day with a Project WET curriculum guide. *To register, please contact Marianne Hook. Contra Costa Water District Education Coordinator at: mhook@ccwater.com -OR- (925) 688-8307*

January 30, 2010

Contra Costa County: Los Vaqueros Reservoir

SAN DIEGO EDUCATORS! The Science & Technology Teacher Resource Center invites you to attend an introduction to how water impacts our lives. Learn how to teach water related concepts through hands on games and activities. Project WET is aligned to the California Science Standards and teaches science concepts and skills in fun, collaborative ways. Participants will be provided a FREE Project WET Guide of activities and CEU credit will be available for purchase. *To register, please call (619) 847-5518.*

January 30, 2010

Contra Costa County: Los Vaqueros Reservoir

ORANGE COUNTY EDUCATORS! The Inside the Outdoors® Educator Trainings are a series of professional development trainings for K-12 educators provided at no cost. Our Project WET workshop provides educators will engage you in a variety of innovative, water-related activities that are hands-on, easy to use, and fun! Project WET activities provide opportunities for large and small group learning, laboratory investigations, discussion of local and global topics, and spark interest in community action

projects. In addition to the Project WET guide, you will also receive resources to reinforce your learning along with a certificate of completion and an opportunity to purchase CEU credit. *For registration information please call: (714) 708-3885-OR- visit our website at: www.insidetheoutdoors.org.*

February 3, 2010

Tahoe Basin

TAHOE BASIN EDUCATORS! UC Davis & Sierra Watershed Education Partnerships (SWEP) invite you to the Tahoe Center for Environmental Science in Incline Village, Nevada to gain greater knowledge of your local watershed through the hands-on activities of Project WET. No chance of getting cold, as their remarkable education staff will keep you actively engaged in the Project WET activities! Please contact *Heather Segale at: (775) 881-7562 -OR- hmsegale@ucdavis.edu to register.*

February 19, 2010

Project W.E.T. Facilitator's Training

CALIFORNIA WATER MANAGERS & EDUCATION COORDINATORS! The Water Education Foundation invites you to send a staff member to this full day training for public outreach professionals, school professional development coordinators and community youth organization leaders in water education outreach efforts. We also welcome Professors of Teacher Education, who are interested in offering Project WET as a component in their teacher education or science methods courses. *To register or more information, contact Brian Brown at (916) 444-6240 –OR- projectwet@watereducation.org.*

March 5, 2010

Santa Clara Valley: Santa Clara Valley Water District

SANTA CLARA EDUCATORS! The Santa Clara Valley Water District invites you to a truly unique Project WET workshop experience with their outstanding education staff. You'll not only get some fantastic activities to use in your classroom, but may also walk away with a new appreciation for the magic of water. *Contact Kathy Machado at: (408) 265-2607-2331 –OR- kmachado@valleywater.org*

March 11, 2010

Project W.E.T. Facilitator's Training

CALIFORNIA WATER MANAGERS & EDUCATION COORDINATORS! The Water Education Foundation invites you to send a staff member to this full day training for public outreach professionals, school professional development coordinators and community youth organization leaders in water education outreach efforts. We also welcome Professors of Teacher Education, who are interested in offering Project WET as a component in their teacher education or science methods courses. *To register or more information, contact Brian Brown at (916) 444-6240 –OR- projectwet@watereducation.org.*

March 13, 2010

Ferndale: Location TBD

HUMBOLDT EDUCATORS! The Del Oro Water Company, North Coast CREEC Network & Water Education Foundation invite you to a truly unique Project WET workshop experience with their outstanding education staff. You'll not only get some fantastic activities to use in your classroom, but may also walk away with a new appreciation for the magic of water. *Contact Brian Brown at: (916) 444-6240 –OR- projectwet@watereducation.org.*

May 1, 2010

Folsom: San Juan Unified

SAN JUAN UNIFIED TEACHERS! May is California Water Awareness Month and the San Juan Unified School District and Sacramento Stormwater Program have prepared a wonderful professional development strand for you focused on water resources and issues in your own backyard. Included in the workshop strand is an opportunity to attend a Project WET workshop that will introduce you to the 90 activities in the guide focused on local Sacramento and state water issues for immediate use in your classrooms! *If you have questions would like to register, please contact Brian Brown at: (916) 444-6240 –OR- projectwet@watereducation.org.*

Summer 2009

Forestry Institute for Teachers

These one week institutes bring together natural resource specialists and K-12 teachers for one week, working side by side to gain a deeper understanding of the intricate interrelationship of forest ecosystems and human use of natural resources. You'll walk away with a wealth of knowledge and environmental education curriculum- including Project Learning Tree, Project WILD and Project Aquatic WILD! This FREE training includes all housing, meal and materials you will receive throughout the week. Register at: <http://www.forestryinstitute.org>.

JUST THE FACS... California Project W.E.T. Facilitator Update

CAL SERVE & Project WET: You received a list of grantees and regional service learning coordinator contacts soon after our meeting. Many of the CalServe folks are looking for local watershed projects that their students could tackle through a service learning program and/or advanced workshop training focusing on key watershed issues facing the community. I felt this was a perfect opportunity for

those of you working with water or resource conservation districts who have expressed a desire to connect with area high schools to engage students on local watershed issues.

This is also a potential opportunity to engage other water professionals in your agency in an advanced Project WET professional development workshop for high school teachers focused on local water issues. My hope is that many of you will connect with the CalServe folks if you have not done so already and the end result will be a significant increase in regional water education efforts that engage students, while meeting their educational needs and benefiting the larger community. Please contact me if you have any questions- or if you would like assistance on developing an advanced training workshop.

Project WET Field Test: The nationwide field test for the next generation *Project WET Curriculum and Activity Guide* will conclude at the end of January. The Western Michigan University Science and Mathematics Program Improvement (SAMPI) Center staff conducting the field study was quite excited by the turn out of teacher volunteers on a December conference call and reported very good representation from all corners of the nation. Upon conclusion of the educator field test, the SAMPI team will begin work on a content review of the materials and an impact study. **Once again, I thank all of you who volunteered for the Project WET Field Study this past Fall!**

Winter & Spring Conference Events: Professor Heidi LaMoreaux and students from her Winter intercession course on environmental education have volunteered to represent California Project WET at the Bay Area Environmental Education Regional (BAEER) Faire this January. The BAEER Faire will be the conclusion of their course and will provide the assisting students with an opportunity to share their knowledge of Project WET from the previous three weeks. Please see the 'Professional Development Opportunities' and Winter Events' sections of this Gazette for more outreach opportunities- and *please contact me as soon as possible if you are interested in representing Project WET at one of the events listed or if you are planning to attend local outreach events this year!*

Hope you enjoy a wonderful Winter!

WINTER EVENTS

January 15-17, 2010

Wild & Scenic Environmental Film Festival

Join us for another fabulous weekend at the largest environmental film festival in the United States. The Wild and Scenic Environmental Film Festival sits apart from the hundreds of festivals around the world by leaving you feeling INSPIRED and MOTIVATED to go out and make a difference in your community and the world. The event is organized and hosted by the South Yuba River Citizens League. For 26 years this grassroots environmental organization has been bringing the community together around the protection of the Yuba Watershed. <http://www.wildandscenicfilmfestival.org>.

January 15-18, 2010

Morro Bay Winter Bird Festival

Every Martin Luther King weekend over 450 birders visit Morro Bay, California, a globally important bird area, to see, photograph and learn more about birds. Morro Bay is located halfway between Los Angeles and San Francisco on the Pacific Flyway. Over 200 species are usually sighted during the Festival weekend. Over 100 individual events are featured, including pelagic cruises, boat rides and kayaking in the Bay, van trips throughout the county, as well as many informative workshops. For more information log onto: www.morrobaybirdfestival.org.

January 21, 2010

CASEL Annual Conference

H1N1, West Nile Virus, Hepatitis, Meningitis, MRSA, tuberculosis---sound familiar? Emerging and re-emerging infections and viruses and concerns about obesity are tops for news and current issues in schools. Tackle biomedical science and bridge these issues with opportunities to implement California Science Standards in unique ways that will engage and motivate students. Capitol Area Science Education Leaders Annual Conference is designed to provide information and professional development to forward science education Pre-K-14 in northern California. Go to: <http://imeet.sjcoe.net/casel/Conference.html> for more information.

January 23, 2010

Bay Area Environmental Education Fair

Discover the latest in classroom materials, environmental education programs, and field trip sites. Join in the fun and attend workshops introducing conservation and wildlife education, school gardens, and strategies for fostering environmental awareness! The event is specially designed for teachers, community educators, students, families, and all concerned about the environment we share. For more information: www.baerfair.org.

March 10-13, 2010

California Association for Bilingual Education Annual Conference

CABE conferences are the largest gathering of K-12 educators and parents committed to strengthening instructional programs for English Learners. The conference features keynote addresses, over 200 workshops, 15 featured speakers/ children's authors and over 25 institutes in all areas and levels of education. http://www.bilingualeducation.org/conferences_annual.php

March 6, 2010 *Council of Math Science Educators of San Mateo County Spring Conference*
Mark the date! The Spring Math and Science Conference is Saturday, March 7, 2009, from 7:30 am to 3:30 pm. It's our biggest annual event. We're pleased to have this conference co-sponsored by CMSESMC and the San Mateo County Office, and hosted by Cañada College. For more information, please visit <http://cmsesmc.org>.

March 13, 2010 *Los Angeles Environmental Education Fair*
Discover the latest hands-on activities and useful resources that are easily incorporated into everyday life from leading environmental education organizations at this annual Los Angeles County Arboretum & Botanic Garden event. Over 60 organizations will present resources, hands-on activities, field trip and other useful ideas for school and home environmental projects. For more information, please go to: www.laeef.org.

March 22, 2010 *World Water Day*
World Water Day is observed internationally on March 22. UN-Water has chosen "Communicating Water Quality Challenges and Opportunities" as theme for World Water Day 2010. The overall goal of the World Water Day on 22 March 2010 campaign is to raise the profile of water quality at the political level so that water quality considerations are made alongside those of water quantity. To learn more, visit our website at: www.worldwaterday.org.

April 11-17, 2010 *National Environmental Education Week*
National Environmental Education Week (EE Week) is the largest organized environmental education event in the United States. EE Week increases the educational impact of Earth Day by creating a full week of educational preparation, learning, and activities in K-12 classrooms, nature centers, zoos, museums, and aquariums. By participating in EE Week, you encourage your students to make a difference in their schools, homes, and communities! For more information about National Environmental Education Week go to: www.eeweek.org.

GRANTS, SCHOLARSHIPS & AWARDS

California Fertilizer Foundation School Garden Grants *Deadline: January 15, 2010*
The California Fertilizer Foundation provides direct funding to California schools for garden projects. The gardens provide an opportunity for students, teachers and parents to truly "grow" together. Twenty-four \$1,200 grants for garden projects are available to schools throughout California. At the end of each year, winning schools can re-apply for a progress grant of \$1,500 and a free agricultural field trip. For more information, please contact Pam Emery at (916) 574-9744 or apply on our website: www.calfertilizer.org.

2009 Toyota TAPESTRY Grants for Teachers Program *Deadline: Jan. 18, 2010*
Toyota Motor Sales, U.S.A., Inc. and the National Science Teachers Association are pleased to announce the 20th Toyota TAPESTRY Grants for Science Teachers program. This year, 50 large grants of up to \$10,000 each and 20–32 mini-grants of up to \$2,500 will be awarded to K–12 teachers of science in the United States. The categories are Physical Science Application, Environmental Science Education, and Integrating Literacy and Science. <http://www.nsta.org/pd/tapestry>.

Amgen Award for Science Teaching Excellence *Deadline: February 5, 2010*
Amgen invites California educators with a minimum of three years teaching science in grades K-12 to apply for this award. Each year, 19 science teachers are awarded an unrestricted cash award of up to \$5,000 for their creativity, effectiveness, motivation, and teaching ability. As winners, their schools also receive a restricted grant of up to \$5,000 to be used to expand or enhance the school's science program, purchase new science resources, or further the professional development of their science teachers. More information can be found at: www.amgen.com/citizenship/aaste.html

California Coastal Art and Poetry Contest *Deadline: January 30, 2010*
The California Coastal Commission invites California students in K-12th grade to submit artwork or poetry with a California coastal or marine theme. Up to eight winners will be selected to win \$100 gift certificates to an art supply or book store, and their sponsoring teacher will receive a \$40 gift certificate for educational supplies. Students may have their work featured on Commission web pages and materials. For more information, go to: <http://www.coastal.ca.gov/publiced/poster/poster.html>.

Young Epidemiology Scholars Research Project Competition *Deadline: Feb. 1, 2010*

The Young Epidemiology Scholars (YES) Competition for original student research is designed to inspire talented students to investigate the many factors that affect health and ways to improve the health of the public. The YES Competition awards up to 120 college scholarships each year to high school juniors and seniors who conduct outstanding research projects that apply epidemiological methods of analysis to a health-related issue. For more information, visit <http://www.collegeboard.com/yes/fs/atc.html>.

Toshiba America Foundation Grants

Deadline: February 1, 2010

WANTED: Classroom Innovators! Toshiba America Foundation (TAF) is currently accepting applications for grants to support innovative projects designed by math and science teachers to make their own classrooms more exciting and successful for students. Check out the deadlines for your grade level and download the application form and guidelines. **Applications for small grants (\$5,000 or less) are accepted year round.** Applications are available online in PDF at <http://www.toshiba.com/taf/apply.html>.

Amgen Award for Science Teaching Excellence

Deadline: February 5, 2010

Amgen invites California educators with a minimum of three years teaching science in grades K-12 to apply for this award. As winners, 19 science teachers per year are awarded an unrestricted cash award of up to \$5,000 for their creativity and teaching ability and their schools receive a restricted grant of up to \$5,000 to expand or enhance the school's science program, purchase new science resources, or further the professional development of their science teachers. More information can be found at: <http://www.amgen.com/citizenship/aaste.html>

Igniting Creative Energy National Student Challenge

Deadline: February 19, 2010

The Igniting Creative Energy (ICE) Challenge is a national student challenge to motivate learning, ignite the imagination, and fuel the creative potential in youth. Entries must reflect the theme "Igniting Creative Energy" and demonstrate an understanding of what an individual, family or group can do to make a difference in their home or community. <http://www.ignitingcreativeenergy.org>

Mantis Awards

Deadline: March 1, 2010

Mantis sponsors this award program in support of charitable and educational garden programs that enhance the quality of life in their host communities. NGA will select 25 gardens to receive a Mantis Tiller/Cultivator. We welcome applications from all nonprofits; past winners include community gardens, schools, ministries, colleges, master gardening groups, and hospices. Learn more here: <http://www.kidsgardening.com/grants/mantis-criteria.asp>.

Arbor Day Poster Contest

Deadline: March 1, 2010

You are invited to join over 63,000 fifth grade teachers across America in the 2010 Arbor Day National Poster Contest. This year's contest, "Trees are Terrific...and Energy Wise!" is designed to increase knowledge about the importance of trees in the production and conservation of energy. To request a free curriculum kit, contact Kay Antunez at CALFIRE: Kay.Antunez@fire.ca.gov or (916) 653-7958 or visit the website or <http://www.arborday.org/kids/postercontest>

Federal Junior Duck Stamp Program

Deadline: March 15, 2010

The Federal Junior Duck Stamp Conservation and Design Program (JDS) is a dynamic arts curriculum that teaches wetlands and waterfowl conservation to students in kindergarten through high school. The program incorporates scientific and wildlife management principles into a visual arts curriculum with participants completing a JDS design as their visual "term papers". Contact the California Waterfowl Association for information on the program and other educational opportunities for students at: duckstamp@calwaterfowl.org.

Captain Planet Foundation Grants

Deadline: March 31, 2010

The Captain Planet Foundation provides grants to support hands-on environmental projects. The objective of the Foundation is to encourage innovative programs that empower children and youth around the world to work individually and collectively to solve environmental problems in their neighborhoods and communities. Grant rewards up to \$2,500 are available. More information can be found at: <http://www.captainplanetfdn.org>.

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