

Metropolitan Water District of Southern California EDUCATION PROGRAMS



K-5

6-8

9-12

POST SECONDARY

TEACHERS

WHAT DO YOU KNOW ABOUT H₂O?



THE METROPOLITAN WATER DISTRICT
OF SOUTHERN CALIFORNIA



www.mwdh2o.com

bewaterwise.com



THE METROPOLITAN WATER DISTRICT
OF SOUTHERN CALIFORNIA



RESERVOIR

Reservoirs provide water storage so that communities have a predictable supply of water during dry seasons.

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THE METROPOLITAN WATER DISTRICT
OF SOUTHERN CALIFORNIA



EVAPORATION

Water in lakes, oceans and rivers gets heated by the sun, turns into water vapor, and rises into the sky as part of the water cycle. It returns to earth as precipitation. The same amount of water is on the earth now as there was millions of years ago.

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INTRO

WHAT DO YOU KNOW ABOUT H₂O?

Elementary: Water-Wizard Kids

Links



Student Art



Crossword Puzzle



Water Conservation Survey



Best Water Filter



Making Capillary Bookmarks



ABC's of Water



Layers of Liquids



Make a Bracelet



Games



Eggs-tra Cool!



Center the Cork



Water Wizard



Float Your Boat



Water Cycle In a Jar

How Many Gallons Are You?



WATER BINGO

| | | | | |
|----|----|----|----|----|
| 25 | 5 | 3 | 12 | 20 |
| 60 | 2 | 32 | 99 | 9 |
| 7 | 85 | 59 | 8 | 31 |
| 32 | 22 | 3 | 57 | 6 |
| 2 | 27 | 63 | 8 | 21 |



Drops on a Penny

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WHAT DO YOU KNOW ABOUT H₂O?

COOL H₂O 4 MIDDLE SCHOOL



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INTRO

What Do You Know About Water?

High School
H₂O

Conservation
Survey



Watershed



Water
Quiz



Properties
of Water



Environmental
Poetry



Student
Art



Water
Wizard



Water
Treatment



Groundwater
Contamination



Invasive
Species



Science
Projects



Grimy
Groundwater



METROPOLITAN WATER DISTRICT
OF SOUTHERN CALIFORNIA
SOLAR
CUP



DNA



Games



Water
Filter



Saltwater
Intrusion



Conservation
Connection



Water
Debate



Links



K-5**6-8****9-12****POST SECONDARY****TEACHERS**

WATER EDUCATION PROGRAMS FOR TEACHERS

INTRO**K-5****6-8****9-12**

WATER EDUCATION PROGRAMS FOR TEACHERS**

**Curriculum and activity materials are distributed, at no cost, to educators within Metropolitan's service area only.

We thank you for realizing the need to teach your students about the importance of water and how to become better stewards of our precious resource. We also thank you for choosing our water education programs and becoming a part of MWD's family of water educators.

Our programs include elementary, secondary and post secondary education curricula, supplemental materials, assemblies and in-class presentations for K-12 teachers and students. We have been providing these opportunities since 1983. Programs and materials are free to teachers in our service area.

Each of our programs has been field-tested and correlates to the current California state content standards, particularly in the areas of science and history/social science.

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TEACHERS

WATER EDUCATION PROGRAMS FOR TEACHERS

INTRO



K-5

- All About Water
- Admiral Splash
- Water Ways
- Geography of Water
- Journey Down the Colorado
- Story of Drinking Water
- Water Conservation Poster
- Water Cycle Poster
- California's Water Resource Map
- MWD At A Glance
- Video Library
- H2O Show
- Student Field Trips
- DVL Field Trip
- Student Gallery
- Links
- Contact
- Feedback



6-8



9-12



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On this Web site, you will find numerous water-related activities for K-Post Secondary levels. We present classroom ideas and trivia questions to assist your curriculum. Unique field trips are also available for grades 4-12. Be sure to take advantage of all we have to offer.

Please use the links on the navigation bar to learn more about and order materials that are relevant to your curriculum. [Click here](#) for additional teacher and student resources, games and activities.

ORDER EDUCATION RESOURCES ONLINE!

Education Order Form

[Exit this survey >>](#)

Order Form

Thank you for your interest in teaching about water in Southern California.

Metropolitan's free curricula and materials teach students about California's water supply and distribution systems, about water sources, water use, water conservation, the science of water and about the importance and responsibility of stewardship. These materials are available to teachers within our six-county service area, which includes Los Angeles, Orange, San Diego and parts of Riverside, San Bernardino, and Ventura.

All Metropolitan programs correlate to the California Content Standards for grades K-12.

You should receive your materials within approximately two weeks. If we have any questions, we will contact you at the number or email address that you provide.

***Please complete the following to request education materials and information:**

| | |
|---------------------|----------------------|
| First Name: | <input type="text"/> |
| Last Name: | <input type="text"/> |
| Grade Level Taught: | <input type="text"/> |
| School Name: | <input type="text"/> |
| School Address: | <input type="text"/> |
| City: | <input type="text"/> |
| State: | <input type="text"/> |
| Zip: | <input type="text"/> |
| Phone Number: | <input type="text"/> |
| E-Mail Address: | <input type="text"/> |
| School District: | <input type="text"/> |

TRY THIS!

"Eggs-tra" Cool!



- Why does an egg float in salt water, but sink in plain tap water?

You will need:

- 2 eggs
- 2 tablespoons salt
- 2 drinking glasses

Get Started:

- Fill glasses with water.
- Put 2 tablespoons of salt into one glass and stir until dissolved.



Stratigraphy

The physical and biological makeup of a reservoir, particularly in relation to the growth of algae, is critical in assessing the best depth to draw or pump out a “layer” of reservoir water. It must go through the appropriate Inlet/Outlet Tower valve that is the most algae free and at the same temperature. Little or no algae growth means less potential taste and odor problems at the treatment plant. Water must also be pumped “into” the lake at a level or gradient of equal temperature.

You will need:

- One cup of **cold** water mixed with 1-2 drops of yellow food coloring.
- One cup of **hot** water mixed with 1-2 drops of blue food coloring.
- Empty clear glass or test tube.



SCIENCE PROJECTS

Pick an idea that interests you, do some research and narrow your topic down to a problem/ question that is testable.

General Topics:

Water in the Environment:

- erosion
- lakes
- ponds
- oceans
- rivers
- streams
- watersheds
- wetlands

Climate & Weather:

- dew
- frost
- ice
- mist/ fog
- rain
- snow
- vapor



Southern California World Water Forum



Local Students, Global Solutions

Photo Provided by Water For People

Innovative Conservation, Technology, Policy and Communications Grants for Southern California Universities and Community Colleges

Project Overview

Grants of \$10,000 will be awarded for research and development on the implementation of water-use efficiency technology, policy research and communication strategies that can be cost-effectively implemented in Southern California and internationally, including developing nations.

In accordance with the 2002 UN World Summit on Sustainable Development in Johannesburg, South Africa, "...proposals should improve efficient use of water resources...while preserving or restoring ecological integrity, with human

Contact

Please contact [Benita Lynn Horn](#) at (888) 42-WATER (1-888-429-2837) if you have any questions.

Calendar



[World Water Forum Grant Recipients 2011-2013](#)

[Co-Sponsoring Organizations and Resources](#)

[Click here to receive World Water Forum updates.](#)

PROGRAM SCHEDULE:

FALL 2012: Grant funds disbursed and projects' research and development phase begins

WINTER 2013: Conduct on-site visits,

SOUTHERN CALIFORNIA WORLD WATER FORUM



SOUTHERN CALIFORNIA WORLD WATER FORUM



H₂O SCIENCE WORKSHOP



H₂O SCIENCE WORKSHOP ~ HIGH SCHOOLS ~



H₂O SCIENCE WORKSHOP ~ HIGH SCHOOLS ~



SOLAR CUP



SOLAR CUP



SOLAR CUP



FIELD TRIP “HANDS-ON” WATER MODEL



FIELD TRIP “HANDS-ON” WATER MODEL



FIELD TRIP “HANDS-ON” WATER MODEL



CHILDREN'S WATER EDUCATION FESTIVAL



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STUDENT ART CONTEST



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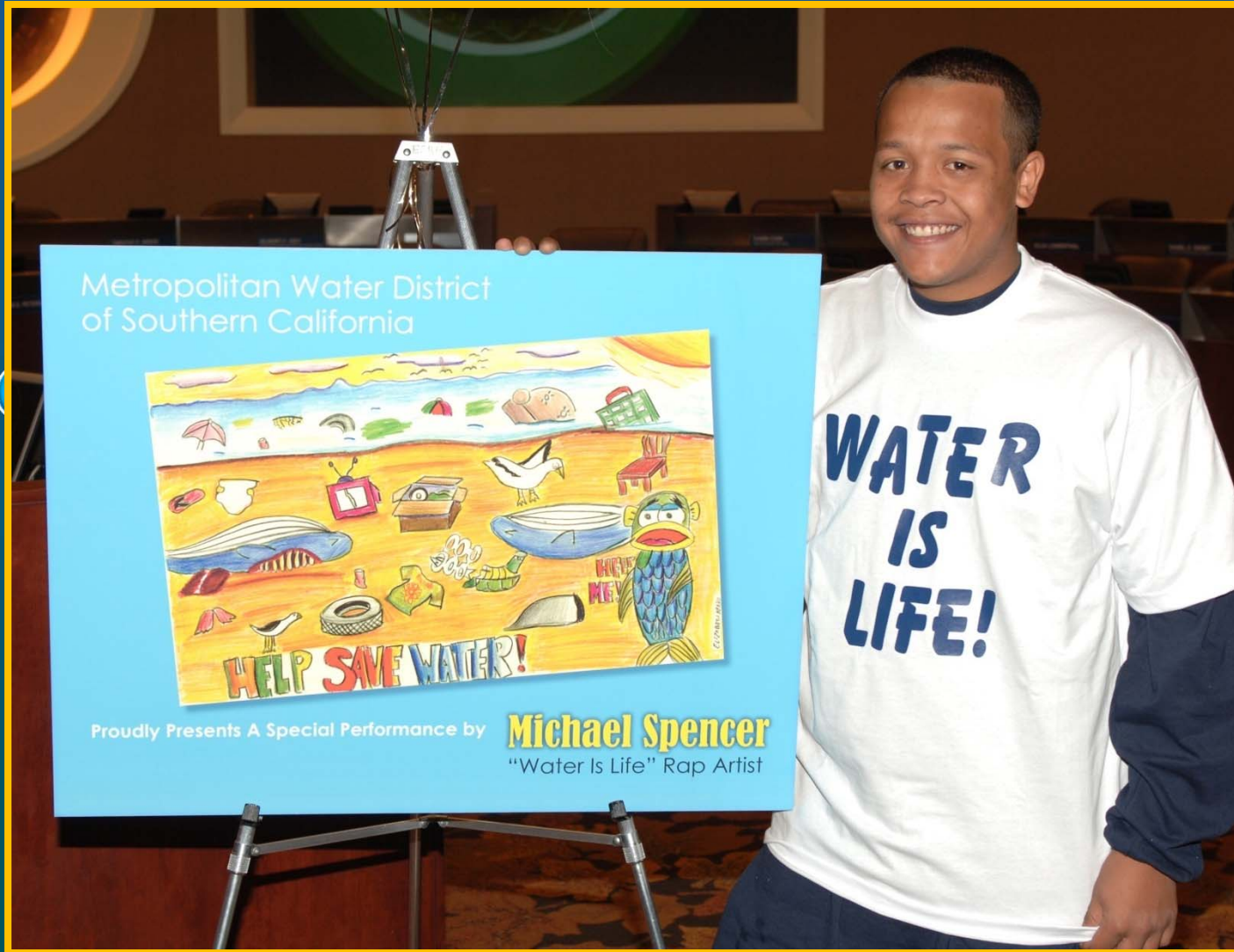


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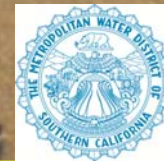
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COMMUNITY WATER CONSERVATION FESTIVAL



ADMIRAL SPLASH



COMMUNITY WATER CONSERVATION FESTIVAL



ADMIRAL SPLASH

DIAMOND VALLEY LAKE TEACHER'S WORKSHOP



DIAMOND VALLEY LAKE TEACHER'S WORKSHOP



THE METROPOLITAN WATER DISTRICT
OF SOUTHERN CALIFORNIA

MEMBER AGENCY EDUCATION COORDINATORS



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TEACHER'S IN-SERVICE

