



Teacher Newsletter For Water Education

Sponsored By The City of Paso Robles

THREE GREAT PROGRAMS, FREE T-SHIRT, AND NEW ACTIVITY HIGHLIGHT WATER EDUCATION PROGRAM

Water Pollution Prevention...You're the Connection

Grades 3 - 6

Students will learn about many of the potential pollutants found around their homes and how they can prevent these pollutants from contaminating local creeks, waterways, and the ocean. Students will identify and discuss how they can affect local ecosystems using two 3-D display boards specifically designed for this presentation. This 45-minute classroom presentation also emphasizes stream ecology, storm water runoff, and food chains.



The Story of Your Water

Grades 3 - 6

This interactive, 45-minute class program will teach students about the water cycle, water treatment, reclamation, and water conservation in the home and yard. The presentation includes vivid graphics and follow-up materials to use in your classroom.

Waste Water Treatment Field Trip Grades 3 - 8

Students can visit the Paso Robles Waste Water Treatment Facility, observing first hand how wastewater from schools, home and businesses is cleaned. This 75-minute field trip will impress upon students of all ages the importance of responsible water use, conservation and water pollution prevention.

Bus cost for the field trip is paid by the City of Paso Robles!



GET A FREE CLASS SET OF THESE COOL T-SHIRTS!

The City of Paso Robles is pleased to offer your students and you these beautiful water awareness t-shirts. Upon completion of all three water programs above, you'll receive the shirts as recognition of your dedication to the study of water conservation and awareness in Paso Robles.



To Schedule or For Questions Call 781-8341

3rd

4th

5th

6th

Physical Sciences

- 1 e. Matter has three forms
- f. Evaporation/melting occur during heating
- g. When two or more substances are combined a new substance with new properties can be formed

Life Sciences

- 3 c. Living things cause changes in the environment

I & E

- 5 d. Predict the outcome of a simple investigation

Life Sciences

- 2 b. Producers and consumers compete for resources
- c. Decomposers recycle matter
- 3 d. Most microorganisms are beneficial

Earth Sciences

- 5 c. Moving water erodes & reshapes the land

Physical Sciences

- 1 a. When two substances react they may form substances with new properties

Earth Sciences

- 3 a. Most of the Earth's water contains salt
- b. When liquid water evaporates it changes form
- c. Water moves in the air from place to place
- d. Fresh water is limited
- e. Origin of water used by local communities

Earth Sciences

- 4 a. The sun is the major energy source powering the water cycle
- 6 a. The utility of energy sources is determined by factors
- b. Classify different energy sources as renewable or nonrenewable



Life Sciences

- 3 c. Living things cause changes in the environment

Physical Sciences

- 1 e. Matter has three forms

I & E

- 5 d. Predict the outcome of a simple investigation



Life Sciences

- 2 b. Producers and consumers compete for resources
- c. Decomposers recycle matter
- 3 b. Different environments influence species survival rates
- d. Most microorganisms are beneficial

Physical Sciences

- 1 a. When two substances react they may form substances with new properties

Earth Sciences

- 3 a. Most of the Earth's water contains salt
- b. When liquid water evaporates it changes form
- c. Water moves in the air from place to place
- e. Origin of water used by local communities

I & E

- 6 f. Select appropriate tools and make observations

Life Sciences

- 5 b. Matter is transferred from one organism to others
- c. Organisms can be categorized by the functions they serve

I & E

- 7 b. Use appropriate tools to perform tests collect data



Water Pollution Prevention...You're the Connection

Life Sciences

- 3 c. Living things cause changes in the environment
- 3 d. Students know when the environment changes



Life Sciences

- 2 a. Plants are the primary source of matter and energy in food chains
- b. Producers and consumers compete for resources
- c. Decomposers recycle matter
- 3 a. Ecosystems can be characterized by living and nonliving components
- b. Different environments influence species survival rates
- c. Plants and animals have interdependent relationships
- d. Microorganisms can be beneficial.

Earth Sciences

- 5 c. Moving water erodes & reshapes the land

I & E

- 6 c. Formulate & justify predictions based on cause-and-effect relationships.

Earth Sciences

- 3. d. Fresh water is limited
- e. Origin of water used by local communities

I & E

- 6 d. Identify dependent & controlled variables in an investigation
- e. Identify independent variable and apply to results
- h. Draw conclusions from scientific evidence



Earth Sciences

- 2 a. Water running downhill helps shapes landscape, including California landscape
- b. Rivers and streams are dynamic systems
- c. Beaches are dynamic systems

Life Sciences

- 5 a. Sunlight energy is transferred to producers, used for photosynthesis and transferred through food webs
- b. Matter is transferred over time
- e. Organism survival dependent on abiotic factors

New For This Year...

Design A Water Conserving Landscape It's Fun, Educational, and FREE!

This new activity is a great follow-up to the class presentation. It can be completed in class, or as homework assignment. Students will be challenged to design a water-conserving and aesthetic landscape.

Using the key on the left side of the page, students can choose from a variety of landscape options. With crayons or colored pencils, they will then draw their choice of plants/lawn/hardscape into the yard. After the landscape is complete, students will use their math skills to determine whether their design is a low, moderate or high water-use landscape.

Included in your class is a teacher instruction sheet with goals, objective correlations and instructions!

DESIGN YOUR WATER WISE LANDSCAPE

Key:

- Brick Lowest 0
- Shrub, native Lower 1
- Tree, with mulch Lower 1
- Groundcover Lower 2
- Shrub, not native Higher 3
- Vegetables Higher 3
- Lawn Highest 5

Directions:
Use the symbols above to design a landscape that conserves water (uses little water). Use at least one landscape item for each space. Each landscape type has a number. A lower number means less water is needed!

Rules:
1. You must use at least 4 different

Georgia Brown Students Excel in Water Studies

By participating in all three water programs offered by the City of Paso Robles, Georgia Brown Elementary School teachers Dan Parks, Virna Ezell and Michele Tucker and their 5th grade students received free water awareness t-shirts.

You too can sign-up and qualify for the shirts by participating in all three water programs described on page one.

Far Right: Teacher Daniel Parks proudly displaying his new shirt.
Right: Water education specialist David Lindsey.



To Schedule or For Questions Call 781-8341

To Schedule Your Class Presentations & Field Trip

Call 781-8341

OR

Fill Out The Form Below and FAX To 781-8343

Name _____	Telephone School _____
School _____	Telephone CELL _____
Grade Level _____	Best Time To Call _____

Presentation(s) Requested	Date, 1 st Choice	Date, 2 nd Choice	Time
The Story of Your Water	_____	_____	_____
Water Pollution Prevention... You're the Connection	_____	_____	_____
Waste Water Treatment Field Trip	_____	_____	<u>9:00 - 10:30 am</u>

Comments: _____

Did you know?

- 💧 The average home in Paso Robles uses 160,000 gallons of water per year.
- 💧 Almost 70 percent of that amount is used outdoors for landscape irrigation.
- 💧 By converting lawns to drought-tolerant Mediterranean plants, landscape water use can be reduced by 70 to 80 percent.
- 💧 Replacing an older toilet with a new High Efficiency model can save 12,800 gallons per year.



Water... Use it Wisely.