

District Water Demands

Discuss the different types of water users. Read the article and study the chart together. Take the quiz to check your students' understanding of the various water demands throughout the District. Discuss how each of these types of water users could conserve water to help meet the future demands.

Sunshine State Standards

Science (6-8): Processes that Shape the Earth, SC.D.2.3
Social Studies (6-8): People, Places, and Environments, SS.B.2.3; Economics, SS.D.1.3.
Science (9-12): Processes that Shape the Earth, SC.D.2.4.
Social Studies (9-12): People, Places, and Environments, SS.B.2.4; Economics, SS.D.1.4.

WaterWeb Contest Page 5

Encourage students to participate in the contest by making it a classroom activity. Entries may be submitted as a classroom set. Be sure to include teacher's name, school name and address.

Sunshine State Standards

Language Arts (6-8): Reading, LA.A.2.3; Writing, LA.B.2.3.
Language Arts (9-12): Reading, LA.A.2.4; Writing, LA.B.2.4.

Classroom Activity Page 6

Create Your Own Desalination Plant

Before beginning this activity, make sure that your students understand the concept of desalination. For additional background, guide students through a review of the article on page 4. Proceed with the activity and use the discussion questions to enhance their understanding of desalination.

Sunshine State Standards

Science (6-8): Processes that Shape the Earth, SC.D.1.3, SC.D.2.3; The Nature of Science, SC.H.1.3, SC.H.2.3.
Social Studies (6-8): People, Places, and Environments, SS.B.2.3.
Science (9-12): Processes that Shape the Earth, SC.D.2.4; The Nature of Science, SC.H.1.4, SC.H.2.4.
Social Studies (9-12): People, Places, and Environments, SS.B.2.4.

Activities Page 7

Although these activities are meant to be fun, they are designed to reinforce important vocabulary and concepts associated with understanding conservation and Florida's water supply.

Crossword Puzzle Answers

- Across**
1. mgd
 2. ground
 3. conservation
 4. salty
 5. alternative
 6. drought
 7. lakes
 8. surface

WaterWeb Scramble Answers

- Words:**
- save
 - resources
 - conservation
 - future

Answers for paragraph:

Practice simple conservation habits and you can play an important role in meeting the future demands for Florida's water supply. By encouraging others to save water, you will help to ensure that we always have an adequate supply of the water resources.

Sunshine State Standards

Language Arts (6-8): Reading, LA.A.1.3, LA.A.2.3.
Language Arts (9-12): Reading, LA.A.1.4, LA.A.2.4.



A lot of information is available about water conservation and our water supply. Use the topics listed to get your students started on their search. Ask them to identify five new facts they learned while surfing the sites. Be sure to have them visit the District's Web site at www.swfwmd.state.fl.us.

Sunshine State Standards

Science (6-8): Processes that Shape the Earth, SC.D.1.3, SC.D.2.3; How Living Things Interact with Their Environment, SC.G.2.3; The Nature of Science, SC.H.2.3.
Language Arts (6-8): Reading, LA.A.2.3.
Science (9-12): Processes that Shape the Earth, SC.D.1.4, SC.D.2.4; How Living Things Interact with Their Environment, SC.G.2.4; The Nature of Science, SC.H.2.4.
Language Arts (9-12): Reading, LA.A.2.4.

WaterWeb Challenge

WaterWeb Challenge

Items included in the Challenge are similar to those presented on the Florida Comprehensive Assessment Test (FCAT). Make copies of the Challenge and explain to students that this provides good practice for preparing for FCAT. Students should be allowed to use the *WaterWeb* issue as they complete the Challenge.

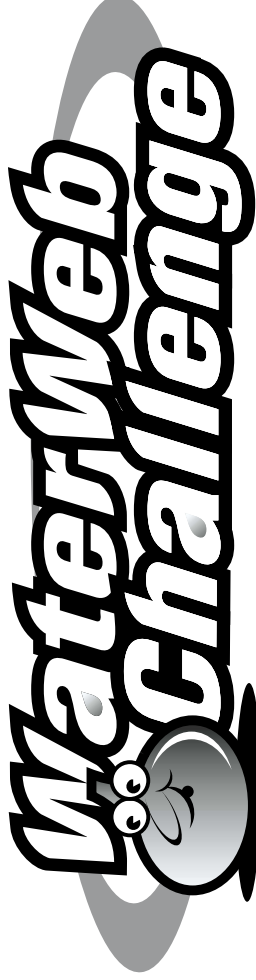
Answers to multiple choice items: 1-b, 2-c, 3-b, 4-d, 5-a, 6-a, 7-c, 8-b, 9-d, 10-d

Extended Response Items

- Responses will vary. Students should be able to demonstrate an understanding of the differences between ground water and surface water as described on page 3 of the newsletter.
- Responses will vary. Students should be able to demonstrate an understanding of alternative water sources, and the connection between water conservation and water supply. Base answers on information presented on pages 1 and 2 of the newsletter.

Sunshine State Standards

Science (6-8): Processes that Shape the Earth, SC.D.1.3, SC.D.2.3.
Social Studies (6-8): People, Places, and Environments, SS.B.2.3, SS.D.1.3.
Language Arts (6-8): Reading, LA.A.2.3; Writing, LA.B.2.3.
Science (9-12): Processes that Shape the Earth, SC.D.1.4, SC.D.2.4.
Social Studies (9-12): People, Places, and Environments, SS.B.2.4.
Language Arts (9-12): Reading, LA.A.2.4; Writing, LA.B.2.4.



Directions: *This is your opportunity to demonstrate what you have learned about conservation and Florida's water supply. It is also an opportunity for you to practice taking items that are similar to the Florida Comprehensive Assessment Test. Do your best and meet the challenge!*

For each multiple-choice item, select the best answer.

- In this issue of *WaterWeb*, you have learned about the importance of water conservation. What does this mean?
 - using only bottled water for drinking
 - practicing ways that use less water
 - practicing ways that use more water
 - both b and c
- Which one below does NOT belong in a list of tips for saving water?
 - Take shorter showers.
 - Run only full loads of washing machines or dishwashers or set the correct water level.
 - Use the toilet as a trash can.
 - Install water-saving showerheads and faucets.
- What can be generalized about the future of our area?
 - We will no longer need to practice water conservation.
 - As more people move into the area, more water will be needed.
 - Desalination will meet all of our water needs.
 - We will no longer depend on ground water to meet our water needs.
- Approximately 75 percent of the fresh water used in the District is ground water. What is ground water?
 - water that is found only on the surface
 - water that has seeped into the ground
 - water that is pumped from underground aquifers
 - b and c
- Which one below is NOT an example of an alternative water source?
 - rivers
 - desalination
 - reuse
 - reclaimed water
- Desalination will become a major new source of water supply in west-central Florida. What is desalination?
 - a process that removes the salt from seawater
 - a process that increases the amount of salt in fresh water
 - a process that removes the salt from fresh water
 - an efficient way to increase the salinity of the bay
- What is the technology that will be used at the Tampa Bay desalination plant?
 - rehydration
 - pumping
 - reverse osmosis
 - conservation
- What is the benefit of desalination?
 - It may be harmful to the surrounding environment.
 - It can provide a droughtproof alternative water supply.
 - It is an inefficient way to provide drinking water.
 - It is a way to use water from the underground aquifers.
- What do we know about the Tampa Bay desalination plant?
 - It will produce the world's lowest-priced desalinated water.
 - It will produce 25 mgd of desalinated water.
 - It is planned to be operating by the end of 2002.
 - All of the above.
- What is an important message for readers to remember after completing this *WaterWeb* issue?
 - There is no need for us to conserve water.
 - Ground water will become an alternative water source.
 - We need to persuade people not to visit our area.
 - There is a connection between water conservation and water supply.

The District does not discriminate upon the basis of any individual's disability status. Anyone requiring reasonable accommodation under the ADA should contact the Communications and Community Affairs Department at (352) 796-7211 or 1-800-423-1476 (Florida only), TDD only 1-800-231-6103 (Florida only).



Many other free materials are available from the Southwest Florida Water Management District. We also offer water resources workshops for teachers in our county. Please contact us at 1-800-423-1476, ext. 4757, if you have any questions or suggestions about our water resources education program. Visit the District's Web site at www.swfwmd.state.fl.us.