

Name: _____
Period: _____

Title: Water Conservation Pictograms

Background Information:

Freshwater, limited in supply is essential for life. Utah is the 2nd driest state in the United States. The majority of usable freshwater in Utah is in the form of groundwater. We access this water by drilling wells and pumping the water out. Other reservoirs include running water in rivers like the Jordan River, Bear River, Green River etc., frozen water in the snow-pack, water in the atmosphere, lakes and reservoirs like Bear lake, Jordanelle, Deer Creek etc.

Despite all these reservoirs we receive less the 13" a year of average precipitation. As a resident of Utah, it is especially important for you and your family to understand how to conserve water. We use water everyday for a variety of reasons and in a variety of ways. There are many simple things you can do to help our community maintain the needed water supply.

Purpose: In this activity you should become familiar with everyday ways you can help conserve water. By the end of the activity you should be able to easily list at least 5 ways.

Materials: Butcher paper, markers/crayons/colored pencils, *Water Conservation Checklist*

Prediction: What are 5 important ways you think Utahans can conserve water?

Procedures:

1. You may work alone or with a partner in this activity. Choose which you would prefer.
2. You will be assigned a letter A-W by your teacher, write that letter here: _____. (If you are working with a partner you will be assigned the same letter.)
3. Randomly select 2 letters in the alphabet between A and W. Write them here: _____. (If you are working with a partner, select the same letters as your partner)
4. Obtain a *Water Conservation Checklist*.
5. The letter assigned and the letters you chose, correspond to the lettered items in the *Water Conservation Checklist*. Choose one more letter after reading over the items. Write that letter here: _____.

6. For each letter listed in steps 2, 3 and 5, you will create a pictogram. A pictogram is a picture puzzle that visually spells out the words of a phrase.
7. Obtain a sheet of butcher paper approximately one square meter in size.
9. On one side of the paper you will be drawing a large pictogram for the letter you (or you and your partner) were assigned. On the other side, you will be drawing 3 smaller pictograms for the remaining 3 letters you choose.
10. Be sure to use color and be neat and creative in your drawings. Remember these usually phonetically sound-out a word using pictures.
11. Answer the analysis questions and conclusions when you have completed your drawings.

Analysis Questions:

1. Describe 2 ways you can cut water waste in you toilet.
2. How much water could a small drip from a pipe waste each day?
3. Explain 3 ways to conserve water when caring for your lawn.
4. Draw and label a water cycle in Utah, using reservoirs that exist in Utah. Use the Background Information to help you if you do not know the names of reservoirs in Utah.
5. Xeriscaping is a philosophy of landscaping which uses native plants, rocks, and minimal grass in its design. How could xeriscaping your lawn apply to water conservation in Utah?

Conclusions: In complete sentences explain 5 things that you learned by completing this activity. How did your predictions compare to the *Water Conservation Checklist* you were given.

Grading Rubric:

Requirement	Points Received	Points Possible
Predictions		5
Large Pictogram		10
3 smaller pictograms		9
Analysis Questions, complete and correct		10
Conclusions valid and complete		16
Total		50