

Post-Visit Lesson: *Our Water, Our Future, Our Responsibility*



Lesson Overview

After the *Our Water, Our Future* classroom presentation, students work at school or home to complete the fun and engaging activities in the *Our Water, Our Future Learning Guide* to continue to learn about the water cycle, water sources, and water conservation. In addition, students use QR codes or URLs to watch related videos.

Arizona Department of Education Academic Standards

Please refer to the Arizona Department of Education Academic Standards file for the ADE standards addressed by this lesson.

Learning Outcomes

Students will be able to:

- ➔ identify Tucson's four main water sources: groundwater, Colorado River water, recycled water, rainwater.
- ➔ describe changes in Tucson's water use and water sources throughout history.
- ➔ define and describe the following vocabulary: precipitation, evaporation, runoff, percolation, aquifer, water cycle, One Water.
- ➔ label features on a map of the western United States (Tucson, seven western states, Colorado River, Mexico, Sea of Cortez, compass directions).
- ➔ use a precipitation map to describe Tucson's annual precipitation and explain why it is variable.
- ➔ explain how Colorado River water is delivered to Tucson via the Central Arizona Project (CAP).
- ➔ describe the features of a rainwater harvesting system (rain gutter, downspout, cistern, landscape basin)
- ➔ calculate daily personal water use and determine ways to be Water Smart.
- ➔ describe actions they can take to share about the importance of water conservation.

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(continued)

Materials

- ➔ *Our Water, Our Future Learning Guide* (one per student, provided at the end of the *Our Water, Our Future* classroom presentation)

Procedure

1. After the *Our Water, Our Future* classroom presentation, distribute the *Our Water, Our Future Learning Guide* to each student.
2. Have students work on their *Learning Guides* during class or at home with family assistance if needed.
3. Remind students that there are QR codes and URLs to numerous videos throughout the *Learning Guide*. Show the videos to students in class and/or encourage students to watch the videos at home with their families.

Extension Ideas

- Create a “Water Smart Ideas” bulletin board in the classroom where students can post and share their water-saving ideas.