

Teacher's Guide

Video: Careers in Water Management

Southwest Florida Water Management District

This teacher's guide supports the Southwest Florida Water Management District's (SWFWMD) video episode *Careers in Water Management*, available at WaterMatters.org/Education. This guide includes supplemental activities for various age groups.

Lesson Time: 20 – 60 minutes

Objectives: Students will become familiar with the work that SWFWMD does. Students will become familiar with careers in water management.

Activity: Watch the video titled *Careers in Water Management* at WaterMatters.org/Education to begin. This three-minute video provides an overview of what SWFWMD does and the many professions that make up SWFWMD staff. After watching the video, have a discussion with students to build on what they saw and heard.

The following questions may be used as a prompt:

1. How is water an essential part of your life?
2. Why is water management important?
3. Was there something in the video that interested you as a future career?
If so, what interested you and why?

To supplement the video, have students complete one (or more) of the student worksheets included in the pages below. Choose a worksheet that best suits your students' grade level. The worksheets included are:

- Coloring Sheet (page 2)
- Water Drop Wordsearch (page 3)
- Careers in Water Management Crossword (page 4)
- Projects in Water Resource Management Exploration (page 5)

WATER IS LIFE



All living things need water.

Water Drop Wordsearch

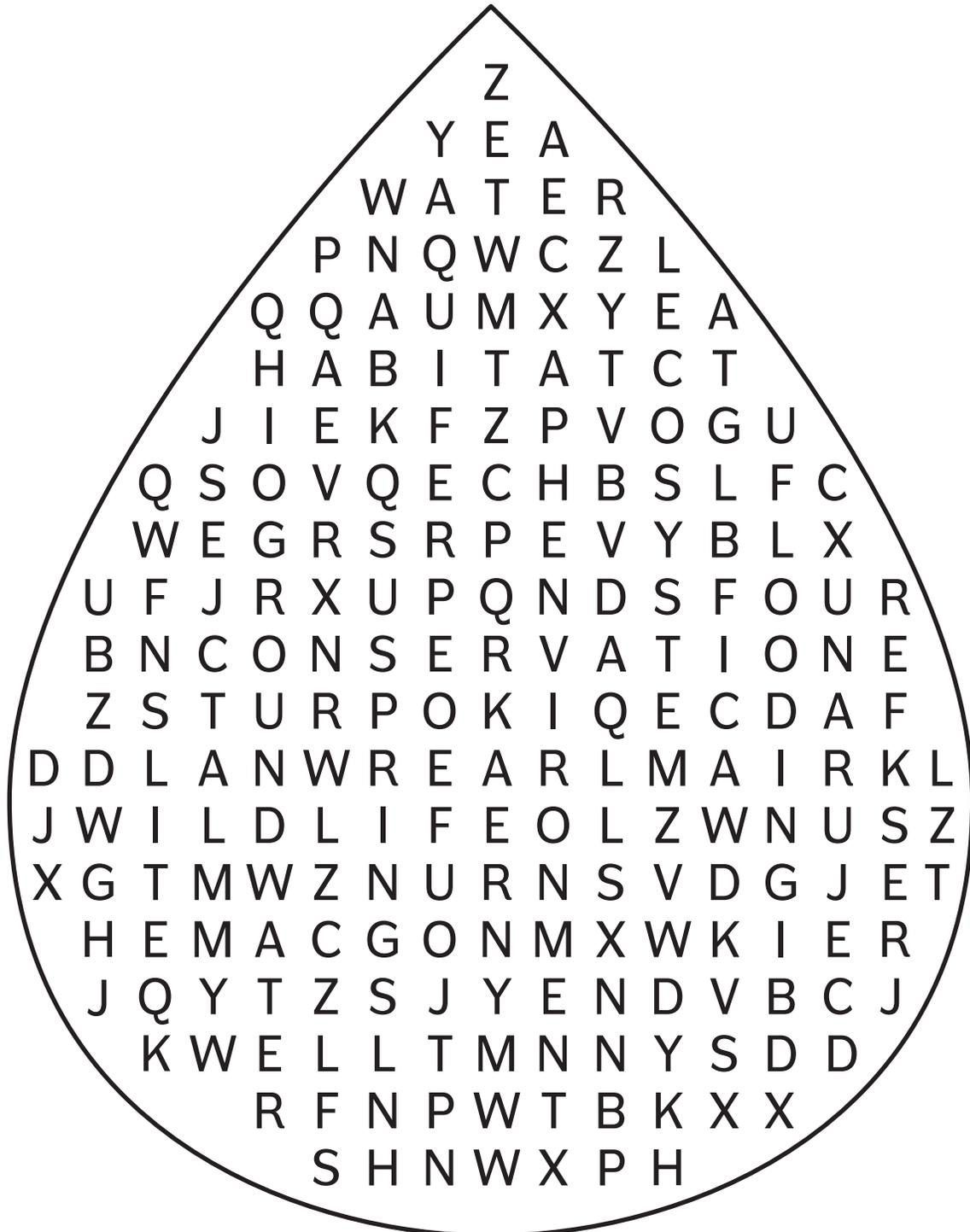
Directions: Find the hidden words in the water drop.

- Water
- Conservation
- Groundwater

- Flooding
- Habitat
- Environment

- Aquifer
- Wildlife
- Springs

- Ecosystem
- Well



Careers in Water Management Crossword

Directions: Complete the crossword by matching the clues with the correct profession listed in the word box.

Down:

1. Someone who designs and/or builds complex products, machines, systems or structures.
2. Someone who studies chemical substances and how they interact with each other. A chemical substance is a form of matter, which makes up everything!
3. Someone who specializes in the field of geology that deals with the study of water underground or on the surface of the earth.

Across:

4. Someone who studies spring systems.
5. Someone who oversees and manages projects.
6. Someone who specializes in the study of water.
7. Someone who specializes in the field of geology. Geology is the study of what the Earth is made of and how it was formed.
8. Someone who studies the physical, chemical and/or biological conditions of the environment and their effects on living organisms.

WORD BOX	
Environmental Scientist	Springs Scientist
Project Manager	Hydrologist
Hydrogeologist	Chemist
Engineer	Geologist

The crossword puzzle grid is composed of empty squares. The starting points for the clues are as follows:

- 1:** Down, starting at the top of the 4th column.
- 2:** Down, starting at the top of the 2nd column.
- 3:** Down, starting at the top of the 6th column.
- 4:** Across, starting at the 2nd column, 7th row.
- 5:** Across, starting at the 4th column, 8th row.
- 6:** Across, starting at the 3rd column, 9th row.
- 7:** Across, starting at the 2nd column, 10th row.
- 8:** Across, starting at the 1st column, 15th row.

Projects in Water Resource Management

Directions: Learn more about a project or program by the Southwest Florida Water Management District (SWFWMD).

Go to WaterMatters.org/Projects and choose one of the projects or programs listed to explore. Answer the below questions to learn more about the project.

1. What project or program did you choose?

2. What are the goals of this project or program?

3. Which part of SWFWMD's mission does this project or program focus on?
Choose all that apply.

- a. Protect Water Resources
- b. Minimize Flood Risks
- c. Ensure the Public's Water Needs are Met

4. What type of expertise do you think is needed to complete this project or program?

5. Do you think this project is important? Why or why not?
