

GRADES 9-12:

Career Field: Standard Engineering and Science Technologies

65:3: Describe postsecondary education and career opportunities in the field of Water Resource Management.

PROCEDURE:

In discussion before viewing *Water Resource Management: Careers*, the teacher may consider engaging students in discussion on any of the following topics:

- Water Resource Management Specialists work in the areas of: water treatment and management, irrigation, flood water management, and water conservation and restoration.
- Water Resource Management specialists are degreed professionals.
- The field of Water Resource Management relies on support from many different disciplines to bring a project to completion.
- Water Resource Management Specialists rely heavily on skills from the STEM content areas – Science, Technology, Engineering and Math.
- Water Resource Management Specialists rely heavily on creative thinking skills in order to solve problems.

In discussion after viewing the *Water Resource Management* video the teacher may have a follow-up discussion on the same topics discussed before viewing the video.

BEFORE VIEWING:

Distribute the Agree-Disagree chart and the Pre and Post-viewing guide on the following page to provide focused viewing for students while watching the *STEM Career Lab* video, *Water Resource Management: Careers*.

Have each student complete the “Before Viewing” column on the Agree-Disagree Chart and the “What I Already Know” column of the Guided Viewing Worksheet. Let students know it’s okay if they do not know all the answers.

WHILE VIEWING:

Play the *Water Resource Management* video and instruct students to now fill out the “What I Learned” Column. Students will make notes about their impressions of needed skills in science, technology, engineering and math and how they need to prepare to go into a career in Water Resource Management.

AFTER VIEWING:

Have students complete the “After Viewing” column on the Agree-Disagree Chart. Discuss the changes in their answers, then use the Guided Viewing worksheet to facilitate a post viewing discussion with students.

DIRECTIONS:

Mark whether you agree or disagree with each statement in the left column before viewing the video. After viewing the video, identify whether you agree or disagree with each statement in the right column. Discuss each statement as a group.

<i>Before Viewing</i>	<i>Statement</i>	<i>After Viewing</i>
Agree Disagree	The field of Water Resource Management is only for students who excel in STEM subject.	Agree Disagree
Agree Disagree	Water Resource Management projects require teams of people with many different skills.	Agree Disagree
Agree Disagree	Water Resource Management Specialists focus on water treatment, irrigation, and water conservation & restoration.	Agree Disagree

	<i>What I Already Know</i>	<i>What I Learned</i>
1. What do Water Resource Management Specialists do?		
2. What types of clients do Water Resource Specialists work with on a daily basis?		
3. How do Water Resource Specialists restore wetlands?		
4. Who do Water Resource Management specialists work with when addressing environmental issues?		
5. What STEM courses will help a student prepare for a Water Resource Management educational pathway?		
6. What are some Ohio educational opportunities for Water Resource Management?		
7. Why is Water Resource Management Important?		
8. What are some of the different career paths, or specialties within Water Resource Management?		