WATER IS FOR YOUR **CLASSROOM, TOO!**

2025 OCWP
Oklahoma Comprehensive Water Plan

A QUICK-START RESOURCE GUIDE for integrating water curriculum into your K-12 classroom.

Teachers – The next generation of water professionals begin their career in your K-12 classroom. To help you integrate water curriculum and inspire your students, a variety of online teaching resources have been gathered and linked below for you to explore.

U.S. Environmental Protection Agency (EPA): Navigate to EPA's Drinking Water Activities for Students and Teachers page to download a various activities on water topics such as the water cycle, non-point source water pollution, and aquifers for all K-12 age groups. Each activity has an associated teacher guide. High school students or teachers can learn more about Watershed Management through their free online academy modules.

Ed-Pass H2O: Navigate to Ed-Pass H2O's Digital Classroom to access six digital classroom modules. Each module has or will have learning goals, activities, and learning standards. They also have a page of water industry resources.

Project Water Education Today (WET): Navigate to Project WET's website for a variety of science-based, interactive water activities. Lesson plans for all ages and children's activity booklets are available for free download or purchase on their website for a small fee.

National Ground Water Association University (NGWAU): Navigate to NGWAU by Oklahoma State University's (OSU) Awesome Aquifer 360 page. Awesome Aquifer 360 is a series of online groundwater lessons that can be adapted to grade 3 to 12 classrooms. Teachers can register or join the wait list to get free digital access and physical companion kits for their entire class by clicking here. Sponsors can donate materials to schools, or they can be purchased if access if needed immediately.

STEM in a Bag: Tulsa Regional STEM Alliance has a variety of free guides to short STEM activities on their website. A few water-centric activities include the building a water filter, aquifer in a cup, and pipeline challenge (modified for water) for 3rd through 8th grade students. Each activity lists the required materials and the approximate duration.

U.S. Geological Survey (USGS): Navigate to USGS's Teacher Resources page to find lesson plans for middle-aged students, classroom posters for print, links to interactive water webpages.

Water Cycle in a Bag – Water Activity for Ages K-12

OBJECTIVE: Students will model the water cycle on a small scale. Students will learn the basic principles of evaporation, condensation, precipitation, and collection.

MATERIALS: Sandwich size plastic zip-lock style bag, permanent marker, water, clear tape, blue food coloring, 8 oz plastic cup, and popsicle stick.

INSTRUCTIONS:

1. With permanent marker, draw a sun and clouds on the upper half of the plastic bag leaving room on the lower half blank.
2. Fill the plastic cup with water to approximately half-full of water. Add drops of blue food coloring and stick with a popsicle stick until the water is dark blue.
3. Open the plastic bag, pour in the blue water, and seal tightly.
4. With the tape, hang the bag in a window that gets lots of sunlight.
5. Check on your bag to visualize the water cycle as droplets form and run down the side of the bag like rain.
6. This information (or box) needs to be added whether the activity can fit or not.

Are you interested in having a water professional speak to your class?

Reach out to your local utility or one of several water professional groups like *Oklahoma Water Environment Association*, *Southwest Section of American Water Works Association*, *Oklahoma Rural Water Association*, or *Blue Thumb Association.*

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OKLAHOMA Water Resources Board

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