

# 2026-2027 K-12 PROGRAMS GUIDE

Greenville County Soil and Water Conservation District provides **FREE** K-12 programs for all public, private, and home schools in Greenville County. Programs are aligned with 2021 SC Science Standards, and can be customized for your classroom curriculum. Programs include adaptations appropriate to each grade level, making learning accessible for all ages!



## STANDARD PROGRAMS

### 3K-5K Discovering Earth: Soil & Water

Discover the importance of soil and water for plant growth, soil and water as a resource, dive into thunderstorms, or learn water conservation and human impacts through storybook reading, activities and crafts.

### Grades 1-2 Soil & Water in Our World

Investigate the soil, water and sunlight needs for plant growth and survival, observe seeds and how they travel, and the link between seeds and soil. Model the three phases of water in the water cycle, how water changes shape to meet the needs of plants, or the relationship between plants and pollinators. Explore the places where water is found on Earth, the ways in which water can cause erosion to alter a landscape, and our role in the environment.

### Grades 3-5 Exploring our Natural Resources

Explore environmental factors that influence plant growth and traits, the classification of aquatic insects and impacts of habitat changes, interrelatedness within aquatic ecosystems, the water cycle, stormwater science, watershed science and topography, or agriculture and the significance of soil and water as resources we depend on.

### Grades 6-8 Stewards of Soil & Water

Experience Ag in the Classroom for hands on learning about food and agriculture in SC, engage in a review of the water cycle and watershed science, discover the role of water in weather and climate or oceanic circulation, interrelationships in aquatic ecosystems, and the importance of managing climate and Earth's natural resources in our society.

### Grades 9-12 Investigating Environmental Issues

Investigate the impacts of stormwater pollution on pollinators and aquatic ecosystems, classification of aquatic insects as bioindicators, human-environmental impacts, changing climate, floods, biogeochemical cycles, forested watersheds, resource management and invasive species, and the connections between society and the environment.



## CUSTOM PROGRAMS

Are you looking for customized supplemental materials and activities for your curriculum, conservation career exploration, [Ag in the Classroom](#), or action projects? We are happy to provide custom programs in addition to our standard programs, focusing on specific classroom subject content. Contact us to discuss how we can best accommodate your needs!



## GREEN STEP SCHOOLS MENTORING

South Carolina Green Step Schools receive recognition and awards for sustainability projects in which students take the lead in their learning and teaching of others. GCSWCD is happy to serve as a mentor to guide students and their projects. Contact us to learn more!

***Greenville County Soil and Water Conservation District K-12 programs are designed to review and enhance classroom curriculum, goals, and objectives. Depending on your request, programs typically span 45-90 minutes. Please visit our website for more information and to request a program:***

***<https://greenvillesoilandwater.com/school-programs/>***

**To request a program, please contact:**

Kendall Juell  
Stormwater Programs Coordinator  
kjuell@greenvillecounty.org  
(864) 467-4997



## CONTINUING EDUCATION

Education staff at GCSWCD are certified facilitators and educators in high-quality curriculum including Project WET, Project Learning Tree, and Project WILD. Educator workshops for these curricula are held annually as 3 to 6 hour sessions and can be hosted at your school, and GCSWCD also co-leads biennial triple facilitator workshops. CEUs are available for workshop participants.

Interested in professional development for your school? Please contact us via the information below!

***Are you a High School teacher?  
...Ask us about Envirothon!***

## SCHOOL PROJECT MINI-GRANTS

GCSWCD offers mini grants up to \$500 for conservation projects or educational events and program needs. Applications are accepted year-round.



**Scan the code to request a program and to learn more:**



**GREENVILLE COUNTY  
SOIL & WATER  
CONSERVATION DISTRICT**

# GCSWCD K-12 PROGRAMS

## CORRELATIONS WITH 2021 SCIENCE STANDARDS

Grade Level	2021 SC Science Standards	GCSWCD Standard Activities and Programs
1	1-LS1-1 (LS1.A)	Observe types and parts of seeds, and discover the functions of seed and plant parts that protect and help them grow.
	1-LS3-1 (LS3.A)	Observe how seeds and leaves of the same tree can look different with a matching game and activity.
2	2-PS1-1 (PS1.A)	Explore the properties of water through a water olympics lab.
	2-LS2-1 (LS2.A)	Learn about how types of soil can change how plants grow, plant seeds, and experiment with plant growth in a variety of conditions.
	2-LS2-2 (LS2.A)	Engage in pollination and seed travel through an interactive activity.
	2-LS4-1 (LS4.D)	Observe patterns in aquatic insect diversity in different types of habitats.
	2-ESS2-1 (ESS2.A)	Discover how water can change the shape of the land and become an engineer to design methods to slow it down.
	2-ESS2-3 (ESS2.C)	Explore where water is found around the world, and calculate the percentage of water on Earth.
	2-ESS3-1 (ESS3.C, ETS1.B)	Explore our human impacts on land and water, and design solutions to reduce impacts.
3	3-LS4-3 (LS4.C)	Dive into adaptations of aquatic insects by observing their characteristics that support their survival underwater.
	3-LS4-4 (LS2.C, LS4.D)	Investigate the impacts of environmental changes on aquatic organisms and human effects on biodiversity in our streams.
	3-ESS2-1, ESS2-2 (ESS2.D)	Predict patterns in climate and seasonal weather by graphing Greenville temperature and precipitation data, and simulate a weather station measuring rainfall.
	3-ESS3-1 (ESS3.B, ETS1.C)	Explore flood hazard reduction by observing how water changes land, and designing barriers to prevent excess water flow over a landscape.
4	4-ESS2-1 (ESS2.A)	Observe the effects of water erosion on shaping a landscape by building a model and testing changes in slope on the movement of water and sediment.
	4-ESS3-1 (ESS3.A)	Investigate examples and differences in renewable and nonrenewable resources, and their impacts on our environment, through engaging simulations.
	4-ESS3-2 (ESS3.B)	Explore flood hazard reduction by designing solutions to prevent excess water flow over a landscape.

5	5-LS2-1 (LS2.A, LS2.B)	Explore the movement of matter among organisms and their environment by simulating interactions in a soil food web driven by decomposers.
	5-ESS2-1 (ESS2.A)	Simulate interactions among the biosphere, geosphere, hydrosphere and atmosphere in an engaging systems activity.
	5-ESS2-2 (ESS2.C)	Calculate the amount of freshwater and saltwater on Earth by catching a globe, explore where water is found, and graph Earth's water using measurements.
	5-ESS3-1 (ESS3.C)	Simulate the effects of human activities on water use and Earth's hydrosphere, and propose solutions.
6	6-ESS2-2 (ESS2.A, ESS2.C)	Explore the role of water in weathering and erosion on Earth's surface processes and underground features.
	6-ESS2-4 (ESS2.C)	Model the changes and movement of water on, above, and below Earth's surface by simulating a water molecule on a journey through the hydrologic cycle.
	6-ESS2-6 (ESS2.C)	Explore the effects of water temperature, salinity, and density on Earth's weather and ocean patterns, and simulate the rotation of Earth around the sun to map global seasons, climate, climate zones, and analyze climate data.
	6-ESS3-2 (ESS3.B)	Graph and analyze flood data over time to identify patterns of natural weather hazards.
7	7-PS1-1 (PS1.A)	Model the structure and properties of matter by demonstrating the atomic structure and behavior of water molecules.
	7-LS1-6 (LS1.C); 7-LS2-3 (LS2.B)	Explore the flow of energy and matter into and out of organisms through a soil food web simulation highlighting the role of photosynthesis and chemical changes underground.
	7-LS2-4 (LS2.C)	Demonstrate the dynamic nature of ecosystems through an interactive movement activity, and explore how environmental changes impact aquatic ecosystems.
	7-LS2-5 (LS2.C, LS4.D)	Investigate biodiversity of aquatic ecosystems through a simulated sampling activity, and analyze human impacts on biodiversity changes that affect our resource use.
	7-ESS3-1 (ESS3.A)	Simulate the distribution of renewable and nonrenewable resources on Earth, human influence, and explore factors that make resources sustainable.
	7-ESS3-3, 7-ESS3-4 (ESS3.C)	Demonstrate the connections between and effects of human impacts on Earth's systems through a simulation of water resource use.
	7-ESS3-5 (ESS3.D)	Investigate changes in Earth's climate over time through an interactive timeline simulation of atmospheric carbon dioxide, analyze data incorporating human impacts, and predict changes in future climate.