

CMSWS
Educational
Opportunities:
Grades 3-5



Who we are

Charlotte-Mecklenburg Storm Water Services (CMSWS) is a joint City/County utility to manage the runoff from rainfall, reduce flooding, restore floodplains and protect the water quality of surface waters county-wide.

One way that we do this is by providing **FREE** educational presentations to students. This year we are providing virtual options for all of our programs. Please contact us if you have any questions!



Sharnelle G. Currence



Ken Friday



Taylor Mebane



Ashley Smith



Educational Offerings:

We can provide any of the below presentations in-person or virtually. If virtual, we ask that the teacher creates the event in whatever platform their classroom is utilizing (Zoom, Google, Skype, etc.) and invite our staff member to attend the meeting. Pages 4-5 outline NCDPI Standards that we can cover. See the contact information on page six to set up a presentation.

Enviroscape

Our staff will give your students an introduction to CMSWS and go over some key terms (point source pollution, non-point source pollution, stormwater, erosion, etc.). Students will watch a prerecorded video or a live demonstration of our Enviroscape model. Afterwards, our staff will be available to answer any questions from your students.

Floodplain Model

This demonstration shows students the impacts of development. We will discuss impervious surfaces and the important role that trees play in reducing flooding.

Weather or Ecosystem Presentation

A staff member will share a Powerpoint featuring information pertaining to either of these topics and relate it to local phenomena in Charlotte-Mecklenburg.

Volunteer Opportunities

Are your students looking for an extra credit activity, volunteer hours, or maybe just a classroom competition? Students can monitor a stream, label storm drains that remind people the drain is only for rain, or perform a litter pickup. Students can do activities on their own, with family, or friends, or they can attend one of our volunteer activities hosted the second Saturday or last Thursday of every month. More info can be found on our website (StormWater.CharMeck.org).



Applicable NCDPI Standards

3rd Grade

- 3.E.2.1 Compare Earth's saltwater and freshwater features (including oceans, seas, rivers, lakes, ponds, streams, and glaciers).
- 3.E.2.2 Compare Earth's land features (including volcanoes, mountains, valleys, canyons, caverns, and islands) by using models, pictures, diagrams, and maps.

4th Grade

- 4.E.2.3 Give examples of how the surface of the earth changes due to slow processes such as erosion and weathering, and rapid processes such as landslides, volcanic eruptions, and earthquakes.
- 4.L.1 Understand the effects of environmental changes, adaptations and behaviors that enable animals (including humans) to survive in changing habitats.
- 4.L.1.1 Give examples of changes in an organism's environment that are beneficial to it and some that are harmful.
- 4.L.1.2 Explain how animals meet their needs by using behaviors in response to information received from the environment.
- 4.L.1.3 Explain how humans can adapt their behavior to live in changing habitats (e.g., recycling wastes, establishing rain gardens, planting trees and shrubs to prevent flooding and erosion).

Applicable NCDPI Standards (Cont'd)

5th Grade

- 5.P.2.1 Explain how the sun's energy impacts the processes of the water cycle (including, evaporation, transpiration, condensation, precipitation and runoff).
- 5.E.1 Understand weather patterns and phenomena, making connections to the weather in a particular place and time.
- 5.E.1.1 Compare daily and seasonal changes in weather conditions (including wind speed and direction, precipitation, and temperature) and patterns.
- 55.E.1.3 Explain how global patterns such as the jet stream and water currents influence local weather in measurable terms such as temperature, wind direction and speed, and precipitation.
- 5.L.2 Understand the interdependence of plants and animals with their ecosystem.
- 5.L.2.1 Compare the characteristics of several common ecosystems, including estuaries and salt marshes, oceans, lakes and ponds, forests, and grasslands.
- 5.L.2.2 Classify the organisms within an ecosystem according to the function they serve: producers, consumers, or decomposers (biotic factors).
- 5.L.2.3 Infer the effects that may result from the interconnected relationship of plants and animals to their ecosystem.

We look forward to educating your students!



All programs can be customized for you class. Please let us know specific vocabulary terms you would like for us to incorporate. Don't see a program specific to your needs? Contact us and we will work with you.

Contact Info

Sharnelle G. Currence, Sr. Public Information Specialist
(980)-244-0364

Sharnelle.Currence@CharlotteNC.gov

Ashley Smith, Environmental Specialist III
(980)-721-2094

Ashley.Smith@MeckNC.gov

