

Stormwater SMART · Piedmont Triad Regional Council · Alamance County · Davidson County · Randolph County · Rockingham County · Archdale · Asheboro · Burlington · Elon · Greensboro · Gibsonville · Graham · Green Level · Haw River · Jamestown · Kernersville · Lewisville · Lexington · Oak Ridge · Mebane · Randleman · Reidsville · Summerfield · Thomasville · Trinity

Need more Nature Notebooks? Use the QR Code to download the digital file. You can also request more printed copies!





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SMART Contest: Year of the Trail Art Contest
Practice Page: Sketch It! Draw a Nature Scene
Creek Weeks: Learn! Help Out! Have Fun!
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Calling all 3rd, 4th, & 5th Graders in Alamance, Davidson, Forsyth, Guilford, Randolph, and Rockingham Counties!

Draw or paint a picture that shows how you would enjoy spending time on a nature trail near you! Prizes include trail bikes, helmets, reusable water bottles, and more!!

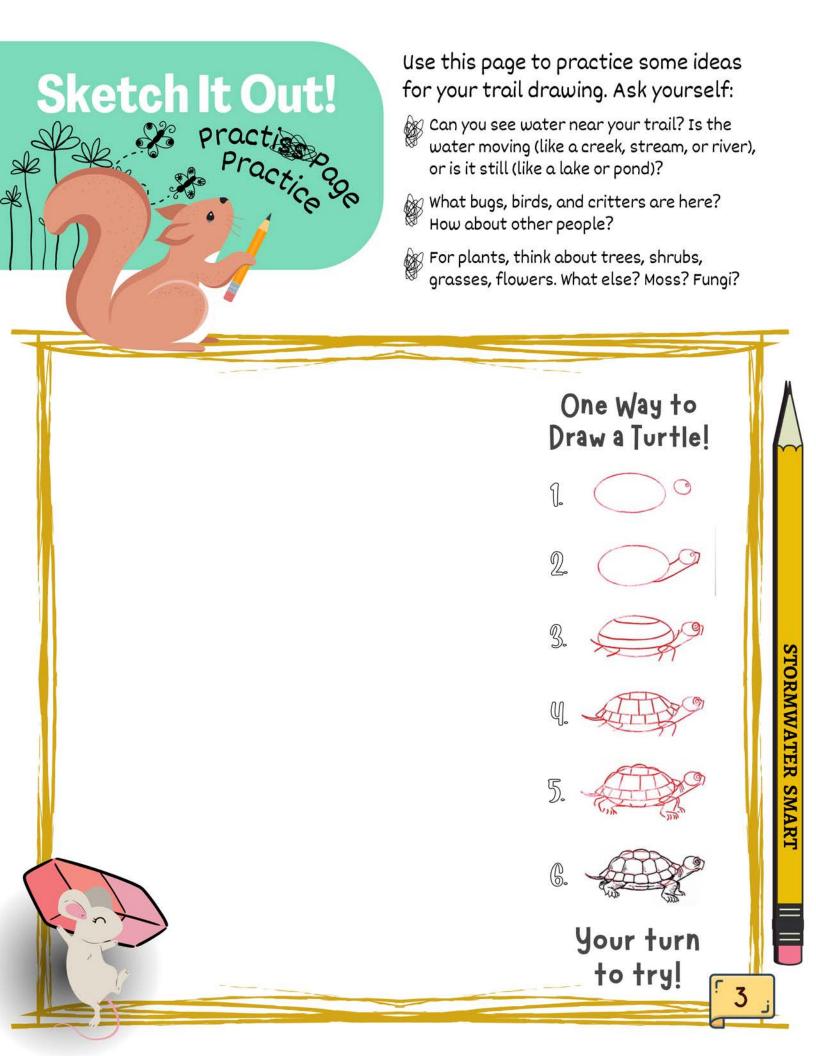
Contest begins March 18 and ends June 10, 2023, but there are more ways to win prizes now through the end of the year! Nature lovers of all ages in the six-county area can enter to win Year of the Trail and Stormwater SMART swag by answering five questions about the fun facts found here in the Nature Notebook. Use the QR Code to visit the contest page and enter!

Questions? Email us!

stormwatersmart@ptrc.org



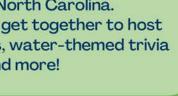
Contest
begins
MARCH 18
and ends
JUNE 10,
2023!





CREEK in the Pierre

Creek Weeks happen in cities, counties, and regions all over North Carolina. It's a time where local governments get together to host events like park and paddle cleanups, water-themed trivia nights, guided hikes, and more!









3 - 10















Scan the QR Code to visit the hub page for Creek Weeks in the **Piedmont Triad! Find** events, sign up to help, and get free **Creek Week swag!**



If it's in the street, it's in the stream!





FLOWER POWER!



Soil and sediment are the #1 pollutants in North Carolina's waterways.



Heavy rains cause stream banks to erode, especially lawns that are mowed to the edge.



You can help by planting seeds of wildflowers that are native to NC in the "buffer zones" of creeks & streams.



Native plants help prevent erosion by keeping soil in place. They require less water and little-or-no pesticide and fertilizer to thrive!



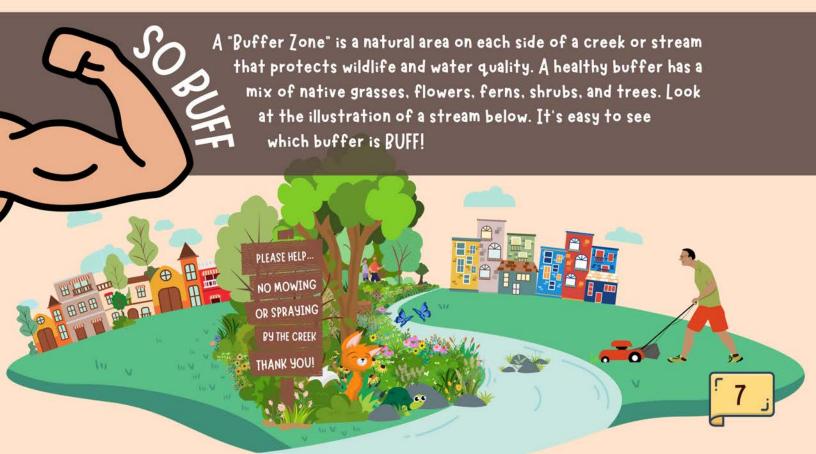
Plant native flowers, shrubs, grasses, and trees in the "buffer zones" next to creeks and streams to help protect the water.



Wildflower seeds are easy to plant! Press the seeds into the soil and keep the ground moist until the seedlings take root.



We'll send you a free seed packet of native wildflowers with original illustrations by North Carolina nature artist Maddie James!
Scan the QR Code on page 2 and answer five questions about the fun facts in this Nature Notebook!





WORD SCRAMBLE! Using the map on Page 8 and the hints below, can you name these Piedmont waterways? See Page 13 for the Answer Key!

This is the biggest river in Alamance County and empties into Jordan Lake (near Raleigh).

- I wonder who gave this creek such a dirty name?
- Before 1940, the "Uharie" River became this! Also called "Wharie" and "Voharee".
- 7 Not "Cursing" Creek, SAGERNIW _______
- This river is part of the Roanoke River Basin.

 YOAM

- Fill in the missing vowel to name this big river, which crosses the state line between Virginia and NC 8 times!



Waterways Connect Our Communities

In our part of the Piedmont, local governments work together because we know that healthy people need healthy waterways, upstream and downstream and all around the streams! That's why we talk about water quality in schools and libraries. All of the partners on the map are "Stormwater SMART" -



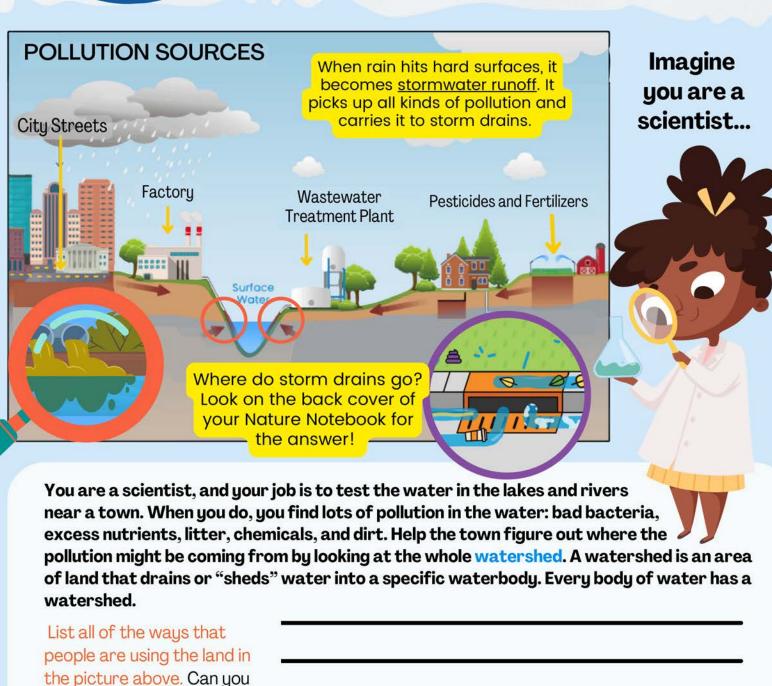


think of some other ways to

not shown here?

use the land that are

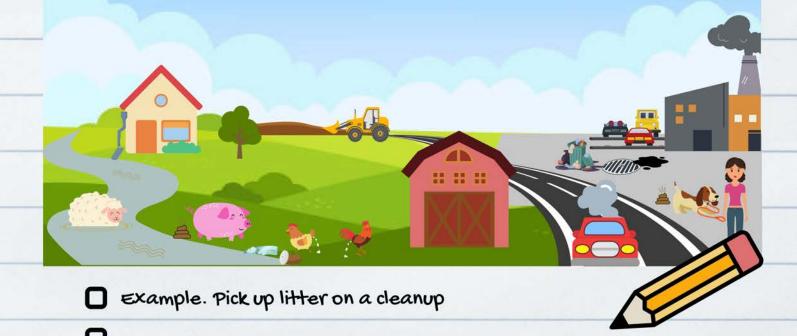
The Clean Water Act was created in the year 1972 to help humans have safe drinking water and stay healthy. Our federal Environmental Protection Agency (EPA) sets standards for clean water and enforces limits on pollution. If the environment is suffering from too much pollution, the EPA requires states to find the source of the problem and fix it. Learn about where pollution comes from in the picture and activity below!







You can see how one picture is polluted while the other is not. Some types of pollution are harder to change than others. What are some things YOU can do to prevent pollution? Write your ideas below.



SIMPLE WAYS For families to save money

For families to <u>save money</u> at home while keeping our <u>air & water clean!</u>





Idling can cost you an extra \$750 per year and wear out your engine. Running your air conditioner at the same time burns even more fuel.

2 Let the lawn grow - set mowers to 2" height

Taller grass shades roots and holds soil moisture better than shorter grass, so you'll need less water to keep the grass green. Mulching mowers help even more; leave the lawn clippings behind to hold in moisture.

CLEAN

Slow down and save.

Every 5 miles per hour over 60 can cost an extra 20-30 cents per gallon! It's a lot safer, too. According to the NC Dept of Transportation, speeding caused over 15,000 accidents in our state in 2019. Slowing down reduces stress AND saves money!

Oon't drip and drive.

Tightening your fuel cap prevents leakage of 30 gallons per year! It also reduces the amount of stormwater pollution that gets into our waterways after a heavy rain.



5 Learn about Clean Fuel Advanced Technology (CFAT)



Scan the QR Code to learn "clean for health" fuels and technologies like solar, electric, biogas, natural gas, liquefied petroleum gas (LPG), and alcohol fuels including ethanol.

CLEAN AIR & WATER BEGINS WITH YOU & ME!

SORT IT OUT! (PAGE 1)









Answer Key

1-2-3! These items can be recycled as long as they are empty, clean, dry, and loose in your recycling bin (not bagged).

- Metal food and drink cans
- Plastic bottles, tubs, and jugs
- Paper & cardboard



Don't recycle small items (like travel-size bottles) or wiru things that could get caught in the sorting machine, like hangers or silverware. When in doubt, throw it out.

Some materials are specific to where you live, like glass. Greensboro and Lexington have special drop-off locations for glass bottles. Scan the OR Code to get printable posters specific to your area!



If you only recycle one thing, make it metal! Metal can be recycled an infinite number of times!



- HAW RIVER
- DEEP RIVER
- YADKIN RIVER
- MUDDY CREEK
- ABBOTTS CREEK
- UWHARRIE RIVER
- SWEARING CREEK
- MAYO RIVER
- DAN RIVER

WATERSHED POLLUTIC You're the Scientistic PAGE TO

places where people use the land. How many ways did you see or think of?

Farms

Houses and neighborhoods

City streets (storm drains)

Factories

Businesses and schools

Construction sites

Wastewater Treatment Plants

Broken sewer lines

Parking lots ...and many more!

Spot the Difference



- Sad vs. happy sun
- · Fence (keeping the animals out of the stream)
- · The color of the stream
- More plants near the stream in the "buffer" zone
- Trash and litter on the ground
- Animal waste
- Trail vs. road
- · Riding a bike instead of driving
- · Charging station for electric cars
- · Car idling
- · Downspout on the house empties right into the stream
- · Overfilled trash in the factory parking lot



PAGE 11

- Regular parking lot vs. paving stones (this is called "permeable pavement" - it lets some of the rain soak into the ground instead of turning it into stormwater)
- Motor oil spill in the parking lot near the storm drain
- · Construction site with exposed soil
- Old factory vs. new "green" factoru!
- Doggy bag to scoop
- the poop!



How do things like plastic bags, cigarettes and

How do things like plastic bags, cigarettes and straws end up in our creeks and streams?

WHEN RAIN HITS HARD SURFACES LIKE PAVEMENT, IT BECOMES STORMWATER RUNOFF...



...AND CARRIES THIS NASTY STUFF STRAIGHT TO THE NEAREST CREEK, POLLUTING OUR DRINKING WATER AND HARMING WILDLIFE.



See our
website for short
animated videos
about stormwater &
more educational
resources!



...AND PICKS UP PET POO, SOAP, GRASS CLIPPINGS, PESTICIDES, FERTILIZERS, LITTER, MOTOR OIL, & MORE...



YOU CAN HELP MAKE SURE ONLY RAIN GOES DOWN YOUR STORM DRAIN. TOGETHER WE CAN MAKE A DIFFERENCE!







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PIEDMONT TRIAD REGIONAL COUNCIL

REGIONAL PLANNING · STORMWATER SMART

