





Ever wonder where the rain

00000 goes when it storms?



In Charlotte, water that comes from our sinks, bathtubs,



and washing machines



is carried through pipes to the



wastewater treatment plant. The dirty water at

the plant is cleaned through a complex system. But water that



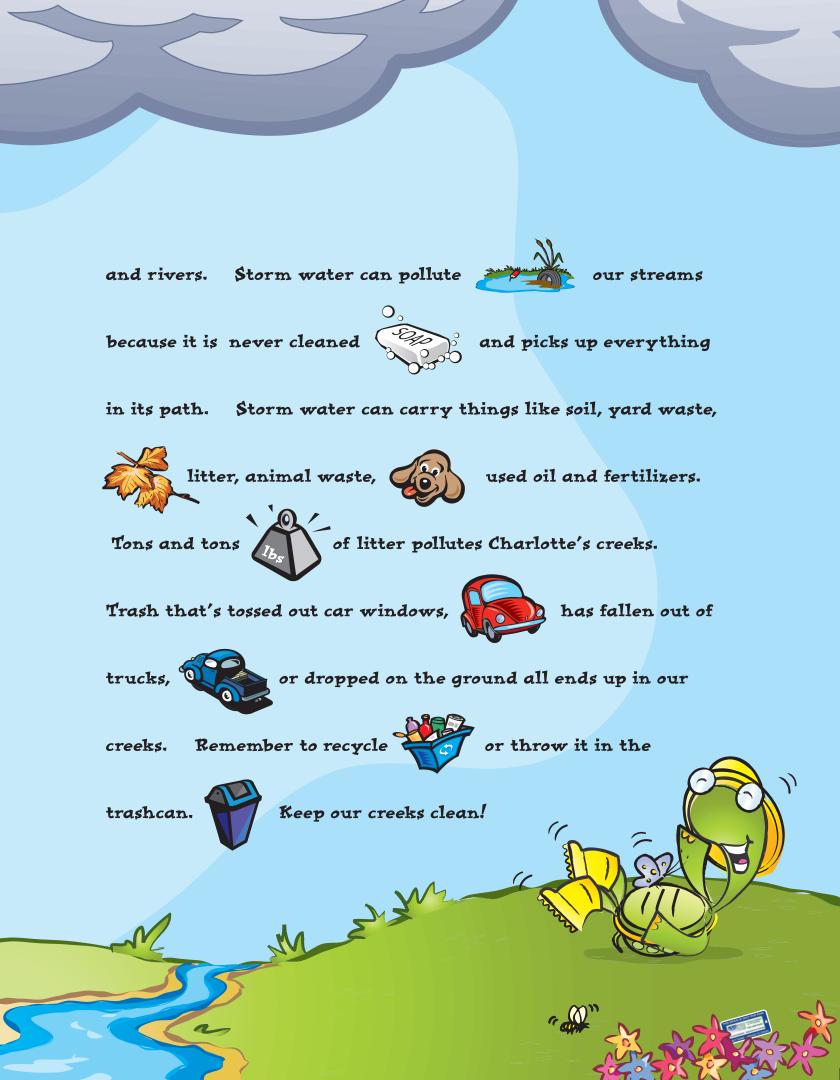


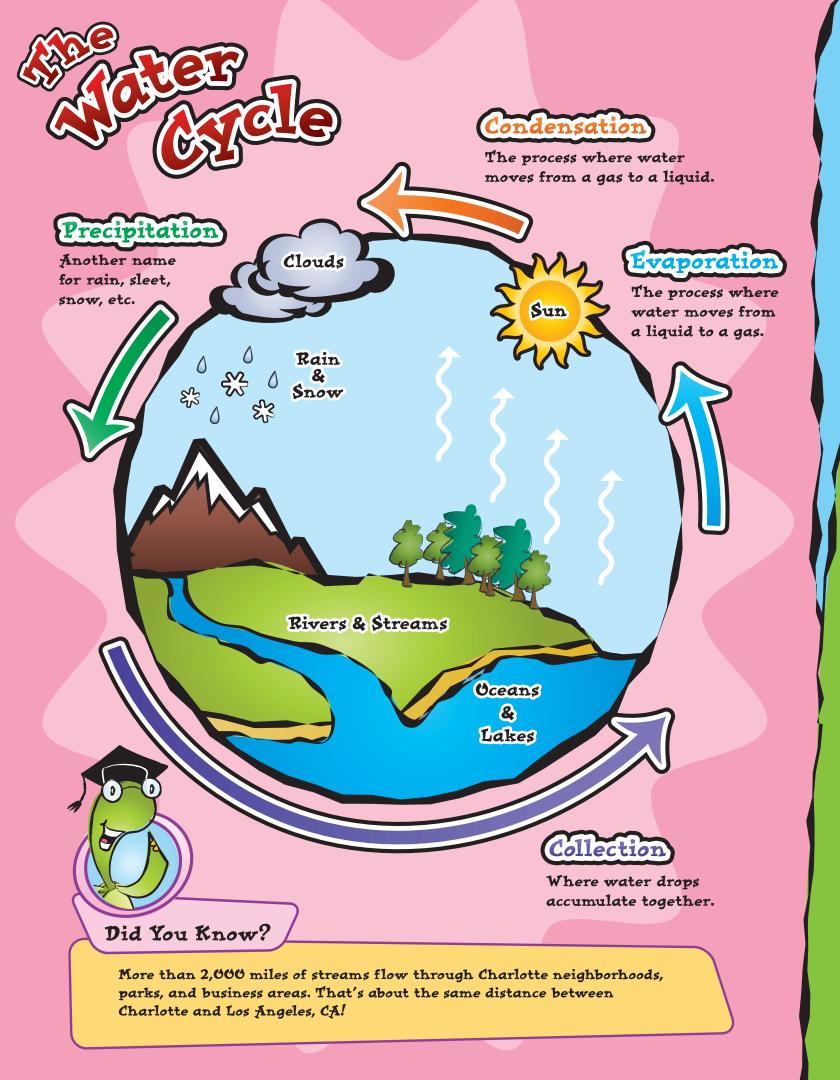
and parking lots

when it rains flows directly to creeks, ponds, lakes

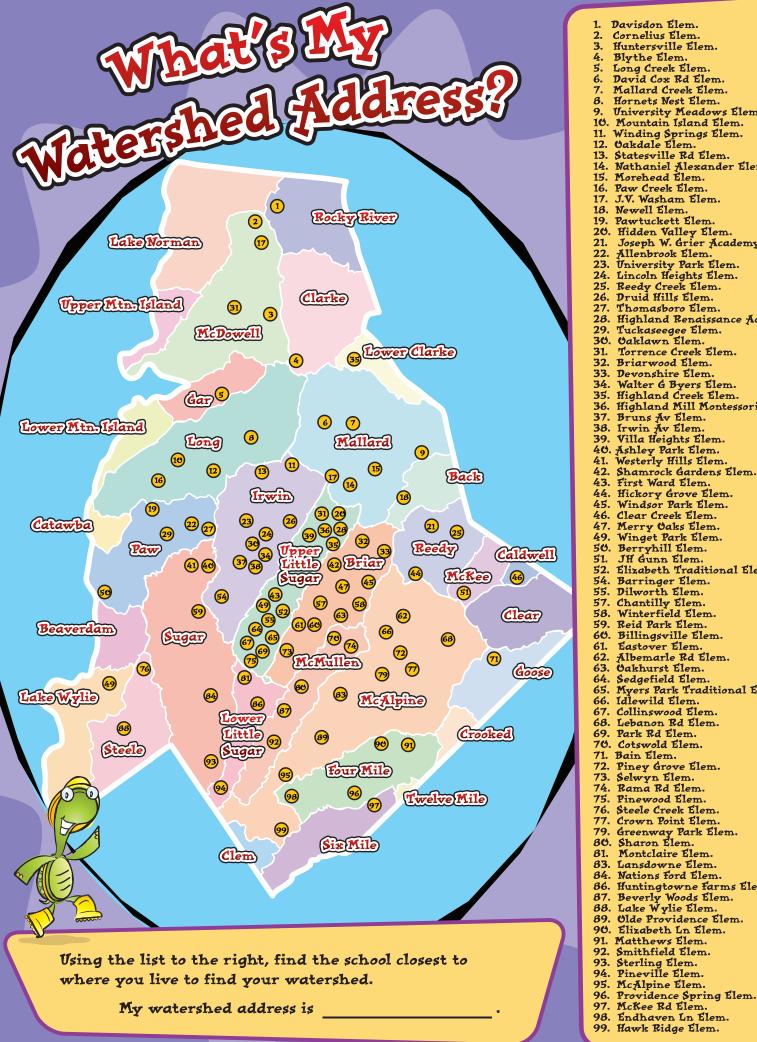




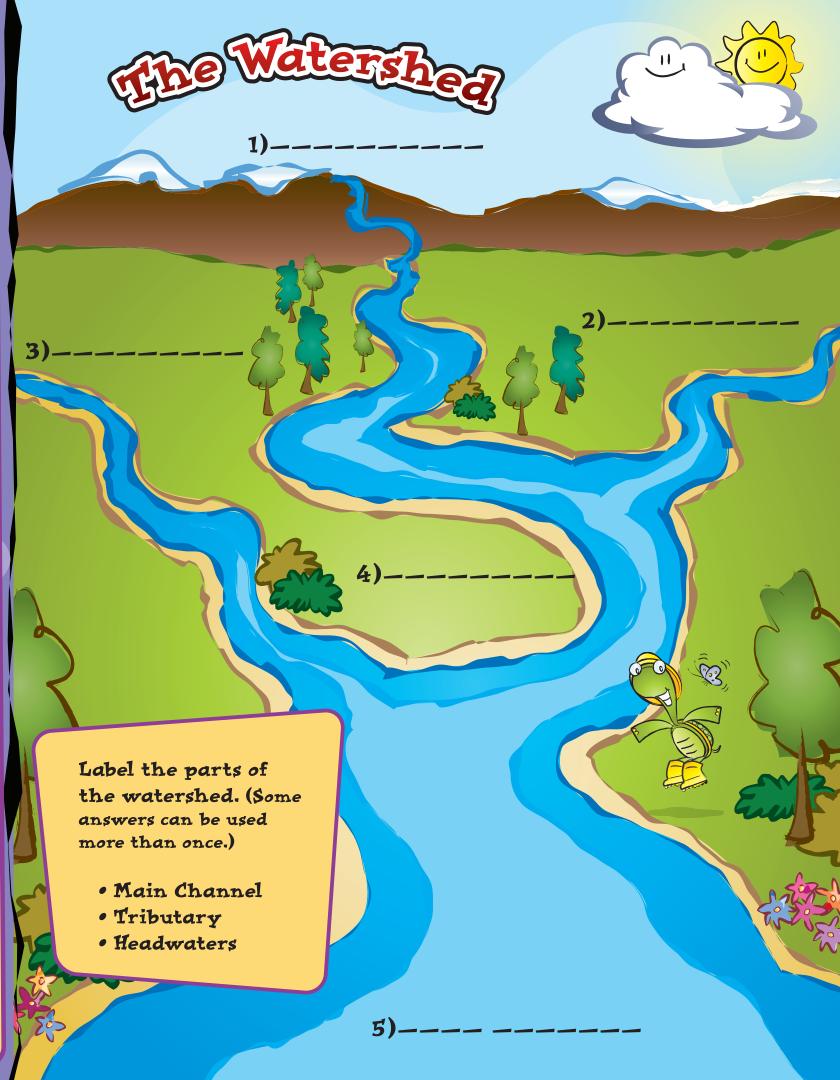








Davisdon Elem. Cornelius Elem. Huntersville Elem. Blythe Elem. Long Creek Elem. David Cox Rd Elem. Mallard Creek Elem. Hornets Nest Elem. 9. University Meadows Elem. 10. Mountain Island Elem. 11. Winding Springs Elem.
12. Oakdale Elem. 13. Statesville Rd Elem. 14. Nathaniel Alexander Elem. Morehead Elem. Paw Creek Elem. J.V. Washam Elem. 18. Newell Elem. 19. Pawtuckett Elem 20. Hidden Valley Elem.21. Joseph W. Grier Academy 22. Allenbrook Elem.23. University Park Elem. Lincoln Heights Elem. 25. Reedy Creek Elem.26. Druid Hills Elem. Thomasboro Elem. 28. Highland Renaissance Acad. Tuckaseegee Elem. 30. Oaklawn Elem. Torrence Creek Elem. Briarwood Elem. 33. Devonshire Elem. 34. Walter G Byers Elem. 35. Highland Creek Elem. 36. Highland Mill Montessori 37. Bruns Av Elem.
38. Irwin Av Elem.
39. Villa Heights Elem. 40. Ashley Park Elem. 41. Westerly Hills Elem. 42. Shamrock Gardens Elem. 43. First Ward Elem. 44. Hickory Grove Elem. 45. Windsor Park Elem. 46. Clear Creek Elem.
47. Merry Oaks Elem.
49. Winget Park Elem.
50. Berryhill Elem.
51. JH Gunn Elem. 52. Elizabeth Traditional Elem. Barringer Elem. 55. Dilworth Elem. Chantilly Elem. 58. Winterfield Elem. 59. Reid Park Elem. 60. Billingsville Elem. Eastover Elem. Albemarle Rd Elem. 63. Oakhurst Elem. 64. Sedgefield Elem. 65. Myers Park Traditional Elem. 66. Idlewild Elem. 67. Collinswood Elem. 68. Lebanon Rd Elem. 69. Park Rd Elem. 76. Cotswold Elem. 71. Bain Elem. 72. Piney Grove Elem. 73. Selwyn Elem. 74. Rama Rd Elem. 75. Pinewood Elem. 76. Steele Creek Elem. 77. Crown Point Elem. 79. Greenway Park Elem. 80. Sharon Elem. Montclaire Elem. 81. 83. Lansdowne Elem. 84. Nations Ford Elem. 86. Huntingtowne Farms Elem. 87. Beverly Woods Elem. 88. Lake Wylie Elem. 89. Olde Providence Elem. 96. Elizabeth Ln Elem. 91. Matthews Elem. 92. Smithfield Elem. 93. Sterling Elem. 94. Pineville Elem. 95. McAlpine Elem.



BIGHE INDES

Benthic macroinvertebrates are aquatic organisms that are used to determine the health of a stream.

Benthic = Bottom Dwelling

Macro = Large enough to be seen with the eye

Invertebrate = Not having a backbone

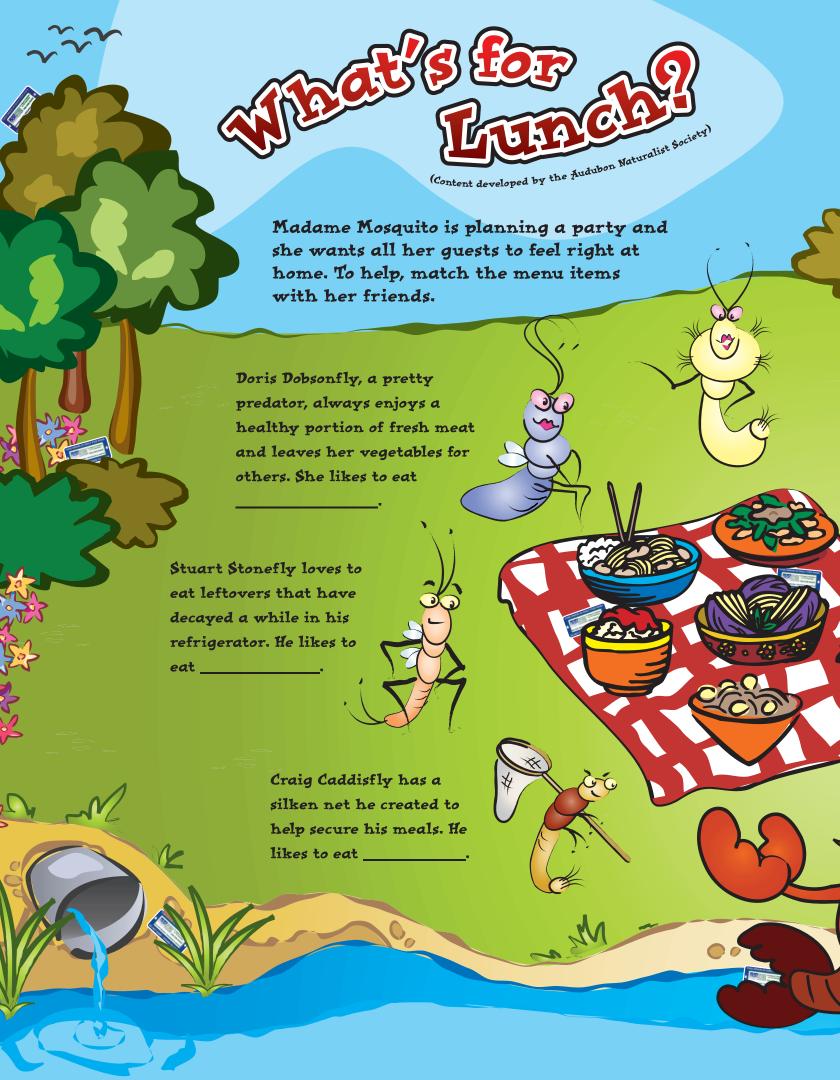
We can tell how healthy a stream environment is by knowing how many and what kinds of benthic macroinvertebrates call the stream home. If a stream is clean and healthy, many different kinds of macroinvertebrates and lots of them will be in the stream.

> Some kinds of macroinvertebrates are more sensitive to pollution than others and will die first. A few macroinvertebrates can tolerate some pollution and will last longer in a polluted stream.

Did You Know?

Water is composed of two elements — 2 Hydrogen molecules + 1 0xygen molecule = H₂0









Word Search

How many storm water words in the list to the right can you find in the water?

YGAEATLONYMZAOCMAOI HTWBF NI LTIRCLDCTUYHW NEYIF ODHRN KMOKTMTIVPTVE E F A T M D B F K N H Y B U S Z R A M I L HUAOFOORIGLHG T P U P R L J G L Z L N R B W C PCQTZIMSIYTILAUQRASW EHSNMVHTIMP OUE R V I ZRQIYNRZNGBKBD CORO OKZOSESUSENEEZUWR PFCIDPDA IHJMML ENIGNEEMDKDBDUP OHROICONCRETEOTLOIT SRFNQEWATEROUIONAS IXRDEOGOOOIULAWP TDAARTHROGNARUWFNN TFIAGJOTONOSZVX EGVOSGYYZGVVVKO LGNYNFUIEGUAGJC

BASIN CHEMICALS CONCRETE CREEK DITCH DRAIN DUMPING ENGINEER ENVIRONMENT ERUSIUN FERTILIZER FLOUDING GAUGE GIS GUTTER IMPERVIOUS INSPECTOR LAWN NONPOINT OIL OUTFALL PIPE PULLUTION QUALITY QUANTITY RAIN ROOF RUNOFF SPILL STURM WASTE WATER WETLAND





Word Scramble

Unscramble these Storm Water words.

alke
donp
ekcer
oltnpluoi
mrtso
twrae
snioroe

dtwsrheae
nclhnae
ndari
tyulqai
odfol
sbani
mntverienon

Hidden Message

Use the key to the right to decode the secret hidden message.

 $\begin{array}{cccc}
\underline{A} & \underline{B} & \underline{C} & \underline{D} & \underline{Q} & \underline{R} & \underline{S} & \underline{T} \\
\hline
\Phi & \boxtimes & \overline{\Phi} & \times & & \underline{\Theta} & \boxtimes & \underline{\square}
\end{array}$



 $\frac{\mathbf{M}}{\triangledown} \frac{\mathbf{N}}{\bullet} \frac{\mathbf{O}}{\lozenge} \frac{\mathbf{P}}{\lozenge}$



Volunteers are marking storm drains in neighborhoods all over Charlotte so that our citizens know that dumping anything down storm drains can harm our environment. How many storm drain markers can you find in Stormy's Guide to Storm Water?





Volumeer



Want to keep our creeks clean? Your school can Adopt-A-Stream. Ask your teacher to contact 704-336-5500 to find out more information.



...never dump anything down a storm drain,



...participate in Big Sweep,





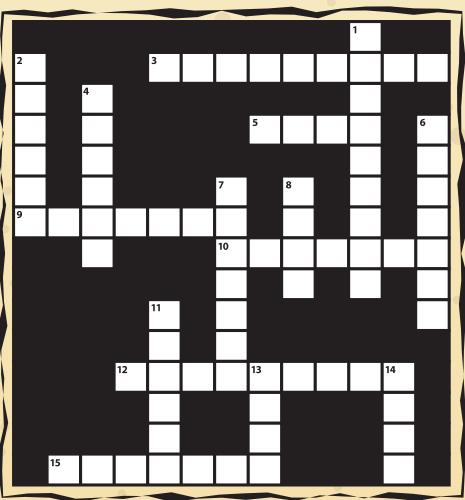
...adopt-a-stream,



...and don't litter!

CRUSSWORD PUZZALE!





CRUSSWORD CLUES

Down

1.	Anything that gets in the path of a	L
	raindrop becomes storm water	

2.	and grass clippings are	•
	types of yard waste that can be	come
	storm water pollution.	

- 4. Storm water flows to creeks, lakes, ponds, _____ and oceans.
- 6. When streams become polluted with oils, sediment and trash, fish and other _____ organisms will die or leave.
- 7. Don't dump used oil or paint down storm drains. _____ it!
- 8. Storm drain markers say, "Do Not _____, Drains to Creek."
- 11. Storm ____ are only for rain.
- 13. Another name for storm water is
- 14. Water flows ____ hill.

Across

3.	Used oil is a type of household
	waste.
5.	is another name for
	sediment.
9.	Storm water flows through
	the drainage system to our
	waters.
10.	Yard waste can be recycled or
	you can it.
12.	A is an area of land
	that drains to a specific body
	of water.
15.	occurs when bare soil
	is exposed to rain.





Storm water flows to a wastewater treatment plant. T/F

Water that goes down the kitchen sink is treated. T/F





Another name for storm water is rain. T/F

There are more than 85,000 storm drains in Charlotte. T/F





Impervious surfaces allow water to soak into the ground. T / F





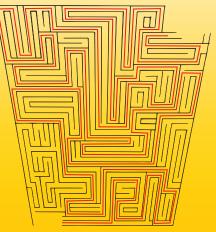


Animal waste is a non-point source pollutant. T / F









:3ZAM

3) Tributary 5) Main Channel 2) Tributary 4) Tributary 1) Headwaters

PARTS OF THE WATERSHED:

DIARI DOMN THE STORM ONTA BAIN GOES **HIDDEN MESSAGE:**

CROSSWORD PUZZLE:

Charlie Crayfish – Creek Casserole Dave Dragonfly - Guest Goulash Walter Water-Penny – Algae Appetizer Stuart Stonefly - Stream Stir-fry Craig Caddisfly – Stream Soup Doris Dobsonfly - Prey Pudding

SHONUL ROS STAHW

STORM DRAIN MARKER TOTAL: 46

L G (N Y N F U I E G U A G) C E E B I

WORD SEARCH:

mntverienon – environment uised - ineds booft - lotbo tyulqai – quality ndari - drain

nclhnae channel dtwsrheae - watershed snioroe – erosion twrae – water mrtso – storm

noitulloq – iouldation **БИСБИ** – СИВБИ puod – duop alke – lake

WORD SCRAMBLE:

SECRET PHRASE: Prevent water pollution.

Answers:



Stormy and this booklet are property of the City of Charlotte, NC and cannot be copied or reproduced without permission.

Printed on recycled paper.

