

## Grade Level Specific Resources for the Web

### Kindergarten and 1<sup>st</sup> grade

*The Power of a Portrait* (Art and Guidance)

<http://www.learnnc.org/lessons/EvikaSturdivant5232002423>

Archibald John Motley, Jr. - "Mending Socks "

<http://www.ackland.org/tours/motley-image.html> from the Ackland Museum.

Lesson plan addresses visual literacy. What is the meaning of the objects in the painting?

Students bring in 3 objects that will tell the class something about themselves. This promotes the valuing of who we are and our uniqueness as well as an appreciation of others.

*The Ackland Art Museum*

<http://www.ackland.org/index.php>

Educators are furnished with information about upcoming teacher workshops, resources, and using art to teach literacy.

*Plants and Animals – Introduction into the Unknown*

<http://www.learnnc.org/lessons/SheilaFMoody10262002347>

Teaches students about where their food comes from and what is available in this area.

*AG in the Classroom*

<http://www.ncagintheclassroom.com/>

### 1<sup>st</sup> Grade

*Turtles are Terrific* (science)

<http://www.learnnc.org/lessons/Lucycrosby2112003595>

This lesson will engage the students in the study of turtle attributes and their habitats. The lesson will integrate science, math, language arts and computer/technology curriculums.

*Field Trip Earth – Atlantic Sea Turtles*

[http://www.fieldtripearth.org/div\\_index.xml?id=8](http://www.fieldtripearth.org/div_index.xml?id=8)

*Just the facts – Sea Turtles*

<http://www.fieldtripearth.org/article.xml?id=1028>

## 2<sup>nd</sup> Grade

*Communities – What They Provide for Us.* (Social Studies)

<http://www.learnnc.org/lessons/econedlink518200503362>

From EconEdLink lesson, students will learn that a job is work people do to earn a living. Students will also discover the difference between jobs that provide a service and jobs that provide a good.

*Kids and Community*

<http://www.planning.org/KidsAndCommunity/>

Students can do a scavenger hunt scrapbook. They can find items that represent different parts of the community.

[http://www.planning.org/KidsAndCommunity/scavenger\\_hunt/instructions.htm](http://www.planning.org/KidsAndCommunity/scavenger_hunt/instructions.htm)

Each page is designed so you can put them all together to create a special book about your community. Print a cover template too.

*Weather Watchers* (Science)

<http://www.learnnc.org/lessons/VirginiaShaddix5232002755>

This is a weeklong activity during which the students record the weather, track weather changes, and make predictions about future weather patterns.

*Climate Kids – Southeast Regional Climate Center*

<http://www.sercc.com/education>

Located at the University of North Carolina at Chapel Hill. There are games, activities, and resources for all ages. You could make an anemometer and a barometer for you class.

## 3<sup>rd</sup> Grade

*Learning from a Tree* (Science)

<http://www.learnnc.org/lp/pages/wildnb0611>

Linda Dow is a former science teacher for W.R. Odell Elementary School in Concord, Cabarrus County, North Carolina, where she designed and implemented a hands-on science curriculum for grades K–5 based on wildlife and exploration of the outdoors. This best practices article tells you how to use a tree on the school property to teach students about trees. The article also gives integration possibilities, helpful tools, and a bonus lesson.

*The Secret Life of Trees*

<http://www.urbanext.uiuc.edu/trees2/index.html>

Students will gain an appreciation of trees, observe trees in their everyday lives, and develop an interest in discovering more about trees.

*The Big Bad Wolf* (English Language Arts)

<http://www.learnnc.org/lessons/StevenSather2112003946>

This lesson will explore the myths and legends surrounding wolves. The class will also investigate factual information about the endangered red wolf

*The Red Wolves of Alligator River*

[http://www.fieldtripearth.org/div\\_index.xml?id=2](http://www.fieldtripearth.org/div_index.xml?id=2)

Not only tells students about the Red Wolves in North Carolina, it also has teaching strategies. For instance, keeping with folk tales,

<http://www.fieldtripearth.org/strategy.xml?id=4>

Find goals and objectives, a lesson, and assessment.

## 4<sup>th</sup> Grade

*You Sank My Battleship* (Math)

<http://www.learnnc.org/lessons/alextaylor992004492>

Students will learn how to plot ordered pairs using the coordinate plane and determine in which quadrant these ordered pairs lie. Students will show mastery of plotting ordered pairs by playing Battleship. Has an ESL component for English Language Learners.

*Battleship North Carolina*

<http://www.battleshipnc.com/index.html>

Has information about the battleship, field trip info, games for students, and lesson plans.

*Minerals and Math* (Science and Math)

<http://www.learnnc.org/lessons/butrfllyz3210232004321>

Students will develop ways to create self-devised rules for classifying minerals and relate this information to scientific ways of classifying minerals according to their characteristics. They will then compile this information into a chart and convert parts of the chart into a line or bar graph.

*North Carolina Geological Survey*

<http://www.geology.enr.state.nc.us/>

This site examines, describes and maps the geology and mineral resources of North Carolina. Go to Mineral Resources page – FAQs and mineral and geological facts.

## 5<sup>th</sup> Grade

*Measuring the Waters* (Science, Social Studies, math)

<http://www.learnnc.org/lp/editions/water-docsouth>

In this lesson plan, students will discuss and understand measurement of a single event and measurement over time. Students will learn how to use different tools for measurement, and decide which are better for long-term or short-term use. Using an excerpt from an oral history about measuring floodwaters during Hurricane Floyd in 1999, students will understand how humans devised ways of keeping measurements during that flood and earlier floods. Students will also graph the floodwaters from Hurricane Floyd and another flood. This lesson includes teacher's guides as well as the oral history audio excerpts and transcripts.

*Hurricane Floyd*

<http://www.learnnc.org/bestweb/floyd-unc>

Visitors to this site will see images of the damage that occurred to the eastern part of North Carolina and hear through audio the stories of those who lived through this devastating storm.

*Tobacco bag stringing: Elementary activity three* (Social Studies – Great Depression)

<http://www.learnnc.org/lp/pages/tbs-activity-elem-3>

This is one of a series of activities that will help educators use the [Tobacco Bag Stringing project](http://www.learnnc.org/lp/editions/ncc-tbs) (<http://www.learnnc.org/lp/editions/ncc-tbs>) materials in their classrooms. Throughout the series students will learn about tobacco stringing, study primary source documents and visuals, engage in a role play/debate, and practice critical thinking and analysis skills.

*Tobacco Bag Stringing: Life and Labor During the Depression*

<http://www.learnnc.org/lp/editions/ncc-tbs>

This website presents images and text from a report in the North Carolina Collection at the University of North Carolina at Chapel Hill documenting tobacco bag stringing work in North Carolina and Virginia in 1939.

## 6<sup>th</sup> Grade

*Biomagnification in Bald Eagles*

<http://www.learnnc.org/lessons/bcaveny12202004132>

In this activity, students will study biomagnification by using paper cutouts to represent food containing chemicals eaten by fish. The students will then repeat this activity but as an eagle collecting fish. The amount of chemicals taken in by each eagle will then be compared to amounts taken in by each fish.

*Carolina Raptor Center*

<http://www.carolinaraptorcenter.org/>

Find answers to their raptor questions, in-depth information about and photos of over twenty raptor species (the species includes owl, eagles, vultures, and more!), and a huge variety of raptor activities and games such as crossword puzzles, quizzes, and coloring pages.

*Descriptive writing using landscape themes*

<http://www.learnnc.org/lessons/RosemaryReichstetter5232002924>

This lesson focuses on the descriptive writing process through the use of landscape scenes, the Paragraph Writing Strategy from the University of Kansas Institute for Research in Learning, and the 4MAT Instructional Model.

*Literacy Junction*

<http://www.ncsu.edu/literacyjunction/>

A virtual community of students and teachers reading great books together. Students can create a character that will then interact in the school's virtual environment and even appear in the yearbook! Activities include critical writing, problem solving, writing dialogs, and other opportunities to share reflections on the readings...

**7<sup>th</sup> Grade**

*Be the Meteorologist*

<http://www.learnnc.org/lessons/rhaines510200557938>

Students use Internet data to plot the path of a hurricane over several days. At designated points, students will decide which areas of the coast to put under a hurricane warning and will justify their decisions. This lesson uses real weather data and allows students to "be the meteorologist."

*State Climate Office*

<http://www.nc-climate.ncsu.edu/>

*State Climate Office* is actively involved in all aspects of climate research, education, and extension services. Its mission is to provide climate related services to the state, local and federal agencies, businesses and the citizens of North Carolina.

*Geometry Charades*

<http://www.learnnc.org/lessons/TimothyKenney5232002495>

The students will physically act out and demonstrate the meanings of various given geometric terms.

*Project Interactive*

<http://www.shodor.org/interactivate/>

Provides modeling and simulation technologies to reform and improve mathematics and science education.

## 8<sup>th</sup> Grade

### *Folklife*

<http://www.learnnc.org/lessons/CarolynEarly5232002527>

Students will learn North Carolina folklore, traditions, war activities, local legends, superstitions, food preparation traditions, art, songs and dances which are unique to the area.

### *Southern Mosaic: The John and Ruby Lomax 1939 Southern States Recording Trip*

<http://memory.loc.gov/ammem/lohtml/lohome.html>

In 1939, John and Ruby Lomax traveled the southern United States, recording nearly 700 examples of folk music and oratory which, along with photographs and field notes, comprise this online collection.

### *The Cell as a system*

<http://www.sciencenetlinks.com/Lessons.cfm?DocID=88>

In this Science NetLinks lesson, students will begin to understand the cell as a system by exploring a more familiar and tangible example of a system — a factory. Throughout the lesson, students will compare the factory to a cell, beginning to understand how both can be thought of as a system.

### *Life: from Diversity to DNA*

<http://www.ncsu.edu/kenanfellows/2003/tvoreis/>

A collection of four units for seventh and eighth grade science covering human body systems, genetics, cells, and microbes and disease.

## 9<sup>th</sup> Grade – 12<sup>th</sup> Grade

### *Proof Puzzles*

<http://www.learnnc.org/lessons/AnnMewborn5232002865>

Students will work in small groups to put geometric proofs that have been cut apart in the correct order. They will organize statements with the correct reason. A recorder in the group will write the finished product for the group to turn in to the teacher.

### *Shodor Education Foundation*

<http://www.shodor.org/>

Provides modeling and simulation technologies to reform and improve mathematics and science education.

*Race in her lifetime*

<http://www.learnnc.org/lp/editions/race-docsouth>

In this lesson, students will use oral histories to trace the life of Rebecca Clark, an African American who was born in rural Orange County just before the Depression and witnessed the changes in civil rights over the years.

*Documenting the American South*

<http://docsouth.unc.edu/>

Ten thematic collections of books, diaries, posters, artifacts, letters, oral history interviews, and songs for the study of Southern history, literature, and culture.

Lesley A. Richardson lrichardson@learnnc.org