STEAM

Nature provides excellent context for teaching Science, Technology, Engineering, Art and Mathematics - so take students outside!

Science

Gardening for Wildlife

Research plants native to Georgia, and install them in your backyard or schoolyard!

https://gnps.org/georgias-native-plants

Georgia Biodiversity Portal

Access rare species profiles, range maps and species lists by county, watershed or ecoregion.

https://georgiabiodiversity.org

Learning with Longleaf

Lessons and activities about longleaf pine ecosystems and prescribed fire, produced by The Longleaf Alliance.

bit.ly/4dv1CLr

GA DNR's Teacher Guide to Georgia Sandhills is another great resource!

https://georgiawildlife.com/SandhillsTeacherGuide

Make a Paper Watershed

Demonstrate how water and the pollutants it carries travel through a watershed.

bit.ly/4drx8tz

Adopt-A-Stream

Visual, chemical, bacterial, macro-invertebrate and amphibian water quality monitoring

https://adoptastream.georgia.gov

Technology

Merlin Bird ID App

Identify birds using the Bird ID Wizard or photo ID, as well as by calls and songs.

https://merlin.allaboutbirds.org

BirdCast

Explore when, where and how far birds migrate, and see spring and fall migration forecasts for your region.

https://birdcast.info

Seek by iNaturalist

This app uses image recognition technology to identify plants and animals!

https://www.inaturalist.org/pages/seek_app

Host a Bioblitz using iNaturalist

Take your nature observations one step further and upload them to iNaturalist, a worldwide database of biodiversity!

bit.ly/4fmEP6l

Wildlife Trail Cameras

Set up a wildlife trail cam (also called a camera trap) to observe animals living near you!

https://greenteacher.com/camera-trapping

Go Outdoors Georgia App

Access hunting and fishing regulations, licenses and maps.

https://georgiawildlife.com/outdoors-ga-app

Engineering

Biomimicry
Learn how nature inspires innovation!
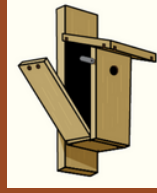
bit.ly/3SPwOwV

Maple Seed Helicopter
Use stiff paper and paperclips to simulate the autorotation of wind-dispersed maple seeds.

https://www.grc.nasa.gov/www/k-12/TRC/Aeronautics/Maple_Seed.html

Construct Nest Boxes
Build houses for a variety of cavity-nesting birds!

http://nestwatch.org/learn/all-about-birdhouses

DNR Game Management looks for volunteers to help assemble and distribute wood duck boxes each year!

https://www.ducks.org/conservation/waterfowl-research-science/build-a-wood-duck-box

Build a Bat Box
https://www.batcon.org/about-bats/bat-houses

Craft a Bow and Arrow
Learn how to build a strong structure and the fundamentals of potential and kinetic energy.

https://www.stem-inventions.com/bow-and-arrow

Simulate Throwing an Atlatl
Learn the physics behind a stone-age spear thrower called an atlatl, using a tennis ball and sock.

https://new.smm.org/learn/activity-throw-like-its-the-stone-age

Art

Make an Animal Track Plaster Cast
Find an animal track and make a cast of it using plaster of Paris.

https://areasonforhomeschool.com/nature-notes-casting-animal-tracks

Give Wildlife a Chance Poster Contest
The theme of this K-5 art contest changes annually. School level winners progress to state level.

https://georgiawildlife.com/postercontest

Youth Birding T-shirt Art Contest
Celebrate native birds through art! Open to PreK-12th graders. Participation in the Youth Birding Competition is encouraged but not required.

https://georgiawildlife.com/YBCTshirtArtContest

Winner!

See Youth Birding Competition details at https://georgiawildlife.com/ybc

Georgia River of Words Poetry & Art Contest
Connects kids to their watersheds and their imaginations

https://projectwet.georgia.gov/ga-river-words

Georgia Fish Art Contest
Introduce youth to conservation and the joys of fishing through art

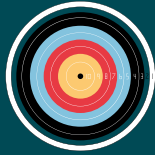https://www.theartofconservation.org/fish-art-contest
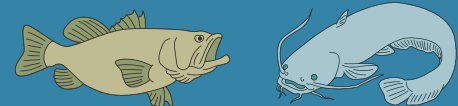
Math

Draw a Fibonacci Spiral
Learn about this amazing pattern in nature!

bit.ly/4dl4oDj

Archery Scoring
Archery teaches patience, focus, and even math skills!

https://www.rookieroad.com/archery/how-is-archery-scored

Archery in the Schools
https://georgiawildlife.com/NASP

Great Backyard Bird Count
Help scientists better understand bird populations before spring migration.

https://www.birdcount.org

Great Southeast Pollinator Census
Participate in this citizen science project to help pollinator conservation!

https://gsepc.org/educators

Population Size Estimates: Mark-Recapture Sampling
Using dried beans, students simulate a classic technique biologists use to estimate wildlife population sizes.

$$N = \frac{Mn}{R}$$

bit.ly/4dyePDc

Teacher Training & Other Resources

Project WILD
Interdisciplinary conservation and environmental education program emphasizing terrestrial and aquatic wildlife resources.

https://georgiawildlife.com/projectwild

Project WET: Water Education Today
Envision a world in which action-oriented education enables every child to understand and value water, ensuring a sustainable future.

https://projectwet.georgia.gov

Project Learning Tree
Activities and resources to engage children in learning about the environment through the lens of trees and forests.

https://www.plt.org/network/georgia

Georgia State Parks
Educational resources and field trip info for teachers and parents.

https://gastateparks.org/EducationalResources

Captain Planet Foundation
Funding for STEM programs that empower youth to become environmental change-makers

https://captainplanetfoundation.org/resources/grants

Environmental Education Alliance
EEA is a coalition of organizations, educators and scientists who are working toward a world where people and nature thrive. Hosts professional learning events and offers GOLD and other grants.

https://www.eealliance.org

Georgia Wildlife Educational Resources
Links to a plethora of teaching resources, grants & field trip info!

https://georgiawildlife.com/education

EEinGeorgia
Resource hub for environmental and outdoor education

https://eeingeorgia.org

Questions?
Call 770.784.3059 or visit

https://georgiawildlife.com

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
WILDLIFE RESOURCES DIVISION