HENRY COUNTY SCHOOLS

Better Together.





3RD GRADE

| SCIENCE |

HENRY

Teaching & Learning Standards

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Science

3rd Grade

Collaboration, Communication, Creativity, and Critical Thinking skills are embedded within the language of the Henry Teaching and Learning Standards

HCS Graduate Learner Outcome	***As a Henry County graduate, I will apply science and engineering practices to understand and analyze lithospheric materials, tectonic processes, and the human and environmental impacts of natural and human-induced changes to Earth's surface.***

GA Standard Code

S3E1 **Obtain, evaluate, and communicate information about the physical attributes of rocks and soils.**

- S3E1a Ask questions and analyze data to classify rocks by their physical attributes (color, texture, luster, and hardness) using simple tests.
- S3E1b Plan and carry out investigations to describe properties (color, texture, capacity to retain water, and ability to support growth of plants) of soils and soil types (sand, clay, loam).
- S3E1c Make observations of the local environment to construct an explanation of how water and/or wind have made changes to soil and/or rocks over time.

S3E2 **Obtain, evaluate, and communicate information on how fossils provide evidence of past organisms.**

- S3E2a Construct an argument from observations of fossils (authentic or reproductions) to communicate how they serve as evidence of past organisms and the environments in which they lived.
- S3E2b Develop a model to describe the sequence and conditions required for an organism to become fossilized.

HCS Graduate Learner Outcome	***As a Henry County graduate, I will apply scientific and engineering practices to understand and analyze the characteristics, functions, and behavioral interactions within an ecosystem.***

GA Standard Code

S3L1 **Obtain, evaluate, and communicate information about the similarities and differences between plants, animals, and habitats found within geographic regions (Blue Ridge Mountains, Piedmont, Coastal Plains, Valley and Ridge, and Appalachian Plateau) of Georgia.**

- S3L1a Ask questions to differentiate between plants, animals, and habitats found within Georgia's geographic regions.
- S3L1b Construct an explanation of how external features and adaptations (camouflage, hibernation, migration, mimicry) of animals allow them to survive in their habitat.
- S3L1c Use evidence to construct an explanation of why some organisms can thrive in one habitat and not in another.

S3L2 **Obtain, evaluate, and communicate information about the effects of pollution (air, land, and water) and humans on the environment.**

- S3L2a Ask questions to collect information and create records of sources and effects of pollution on the plants and animals.
- S3L2b Explore, research, and communicate solutions, such as conservation of resources and recycling of materials, to protect plants and animals.

HCS Graduate Learner Outcome	***As a Henry County graduate, I will understand and analyze energy and the characteristics of waves as demonstrated through the integration of scientific practices.***

GA Standard Code

S3P1 **Obtain, evaluate, and communicate information about the ways heat energy is transferred and measured.**

S3P1a Ask questions to identify sources of heat energy.

S3P1b Plan and carry out an investigation to gather data using thermometers to produce tables and charts that illustrate the effect of sunlight on various objects.

S3P1c Use tools and every day materials to design and construct a device/structure that will increase/decrease the warming effects of sunlight on various materials.