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

- a. Analyze data to classify rocks by their physical attributes using simple tests.
- b. Plan & carry out investigations to describe properties (color, texture, capacity to retain water & support growth of plants) of soils and soil types (sand, clay, loam).
- c. Make observations of the local environment to construct an explanation of how water &/or wind have made changes to rocks &/or soil. (Clarification statement: Examples could include ripples in dirt on a playground and a hole formed under gutters.)

**S3E2. Obtain, evaluate, & communicate information about how fossils provide evidence of past organisms.**

- a. Construct an argument from observations of fossils (authentic or reproductions) to communicate how they serve as evidence of past organisms & environments in which they lived.
- b. Develop a model to describe the sequence & conditions required for an organism to become fossilized.
- c. Use evidence to construct an explanation of how fossils/adaptations allow survival in their habitat.

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

- a. Ask questions to differentiate between plants, animals, & habitats found within Georgia’s geographic regions.
- b. Identify external features & adaptations (camouflage, hibernation, protection, migration, mimicry) of animals to construct an explanation of how these features/adaptations allow survival in their habitat.
- c. Use evidence to construct an explanation of why some organisms can thrive in one habitat & not another.

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

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

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

- a. Ask questions to identify sources of heat energy. (Clarification statement: Examples could include sunlight, friction, and burning.)
- b. Plan & carry out an investigation to gather data using thermometers to produce tables & charts that illustrate the effect of sunlight on various objects. (Clarification statement: The use of both Fahrenheit and Celsius temperature scales is expected.)
- c. Use tools & every day materials to design & construct a device/structure that will increase/ decrease the warming effects of sunlight on various materials. (Clarification statement: Conduction, convection, and radiation are taught in upper grades.)