

Goochland County Public Schools

Grade 3 Science

Marking Period 1

- 3.1 Scientific Observations and Investigations: scientific method, measurement, tools, classifying and interpreting data with the use of graphs, tables, and charts (to be covered and applied throughout the year)
- 3.8a Natural Cycles: day and night, seasons, phases of the moon, and tides
- 3.9 Water Cycle: a) understand the importance of the sun; b) describe the process of evaporation, condensation, and precipitation; c) importance of water for living things; and d) understand water supply and conservation
- 3.10c Effects of natural events, including floods and erosion, and the effects humans have on water

Marking Period 2

- 3.1 Scientific observations and investigations continued
- 3.2 Simple Machines: a) six types; b) their functions; c) how compound machines are formed; and d) provide examples of simple and compound machines
- 3.7 Soil: a) describe the importance to living things; b) identify the layers; c) describe the components of each layer; and d) understand that it is a natural resource and should be conserved
- 3.10c Effects of natural events, including fire and disease
- 3.11 Energy Sources: a) sunlight; b) water, wind, and wood; c) fossil fuels; and d) renewable and nonrenewable resources

Marking Period 3

- 3.1 Scientific observations and investigations continued
- 3.3 Matter: a) understand composition; b) describe how it is made up of small parts; and c) identify physical changes
- 3.6 Physical Environments: a) identify water ecosystems or habitats; b) dry land ecosystems or habitats; and c) identify populations and communities
- 3.8b Plant and animal life cycles
- 3.10 Natural Events/Human Influences: b) Describe how humans effect the survival of each environment; c) describe how natural events effect the survival of each environment; and d) describe conservation and resource renewal methods

Marking Period 4

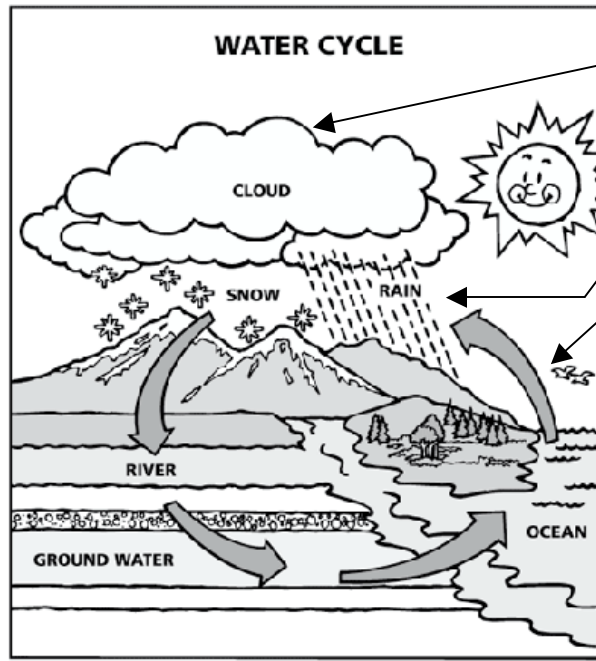
- 3.1 Scientific observations and investigations continued
- 3.4 Animals: a) Physical adaptations; and b) behavioral adaptations
- 3.5 Food Chains: a) identify producers, consumers, and decomposers; b) herbivores, carnivores, and omnivore; and c) predators and prey
- 3.8b Plant and animal life cycles
- 3.10 Natural Events/Human Influences: a) Describe the interdependency of plants and animals; b) describe the effects of human activity on the environment; c) describe the effects of natural events; and d) describe renewable and nonrenewable resources

For more information about the Virginia Standards of Learning, please visit
<http://www.doe.virginia.gov/VDOE/Superintendent/Sols/home.shtml>

Grade 3 Science

Vocabulary

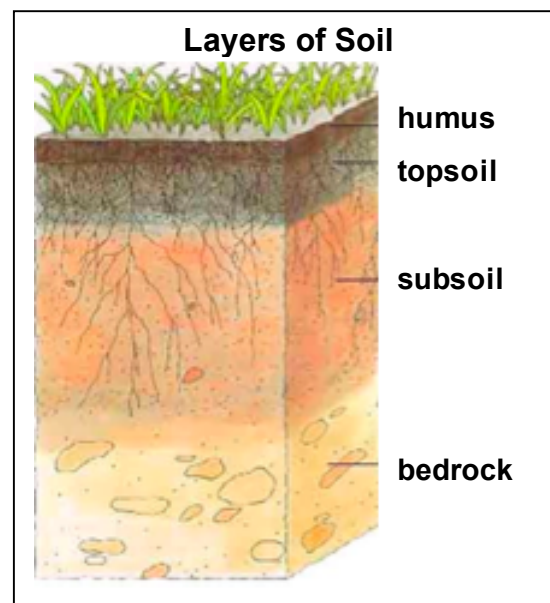
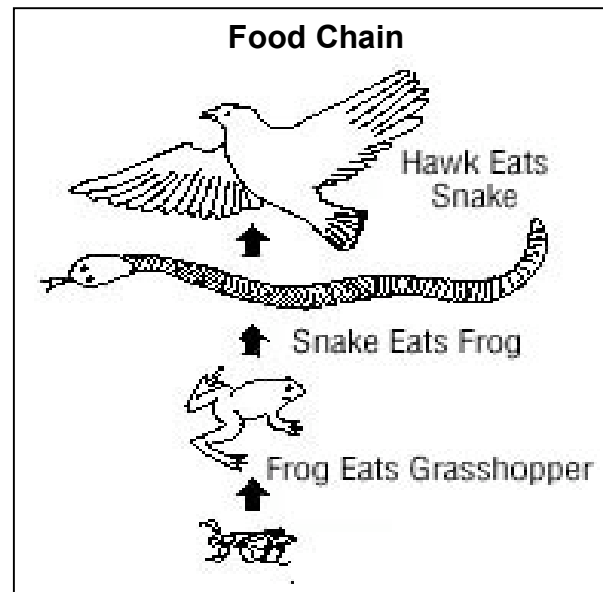
hypothesis
 data
 observation
 centimeter
 gram
 milliliter
 Celsius
 minute
 lever
 screw
 pulley
 wheel and axle
 inclined plane
 wedge
 compound machine
 matter
 mass
 volume
 physical change
 hibernation
 migration
 camouflage
 mimicry
 instinct
 learned behavior
 adaptation
 producer
 consumer
 decomposer
 herbivore
 carnivore
 omnivore
 predator
 prey
 food chain
 population
 community
 aquatic ecosystems
 terrestrial
 ecosystems
 humus
 topsoil
 subsoil
 bedrock
 silt
 rotation
 revolution
 tide
 evaporation
 condensation
 precipitation
 conservation
 interdependency
 fossil fuel



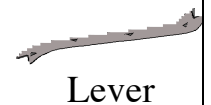
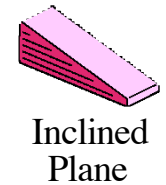
condensation

precipitation

evaporation



Simple Machines



Home Activities

- Find simple machines around the house and create your own compound machine.
- Categorize states of matter using household materials.
- Take a nature walk.

Websites

Various activities:

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

Simple Machines:

<http://edheads.org/activities/simple-machines/index.htm>

Energy:

<http://eia.doe.gov/kids/index.html>