

Rogersville City School

6th Science 2026-2027

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1st 9 weeks

Beginning of Year Activities, Procedures, Rules, etc

Science: Energy

Tennessee Science Standards	Activities	Assessments
PS3: 1 Analyze the sources of energy in a system to gather evidence supporting that energy is conserved during transfers of kinetic, potential (elastic, gravitational, and chemical) and/or thermal energy. PS3: 2 Use a model to gather evidence to support changes to a system can be caused by transfers of sound or thermal energy (i.e., conduction, convection, or radiation).	Types of Energy Kinetic & Potential Energy Transformations Heat Transfer Skate Park Simulation Ball Bounce Investigation Energy Stations Radiation, Conduction, Convection Investigation	BENCHMARK #1 Written Response Multiple Choice Computer-based Paper Based

Science: Engineering Design

Tennessee Science Standards	Activities	Assessments
ETS:2 Design, construct, and test a device that either minimizes or maximizes thermal energy transfer by combining solutions or parts of solutions to solve a problem that can be communicated and explained to others.	Engineering Design: Defining & Delimiting Engineering Problems Optimizing the Solution Design Rodent Game	Written Response Multiple Choice Computer-based Paper Based

Science: Ecosystems & Biological Change

Tennessee Science Standards	Activities	Assessments
LS2:1 Use data to evaluate and communicate the impact of the environmental variables, both living and nonliving (e.g., food, water, oxygen, and other resources), on population size within a system. LS2:2 Construct an explanation that predicts patterns of competitive, symbiotic, and predatory interactions among organisms across ecosystems. LS2:3 Use a model to construct an explanation about the transfer of energy through a food web and energy pyramid in an ecosystem.	Environmental Effects on Population Interactions in Ecosystems Energy in Ecosystems Biomes Invasive Species Changes in Ecosystems Social Interactions & Group Behavior Oh Deer Game Wolf Restoration Producer, Consumer, Decomposer Card Sort Biome Book Invasive Species	Written Response Multiple Choice Computer-based Paper Based

2nd 9 weeks

Science: Ecosystems & Biological Change & Engineering Design

Tennessee Science Standards	Activities	Assessments
LS2:4 Construct an explanation that uses abiotic (e.g., precipitation, temperature, soil) and biotic (e.g., biodiversity, number of organisms) patterns in earth's terrestrial and aquatic ecosystems (e.g., tundra, taiga, deciduous forest, desert, grasslands, rainforest, marine, and freshwater) as measures of ecosystem health. LS2:5 Analyze existing evidence about the effect of a specific invasive species on native populations in Tennessee and design a solution to mitigate its impact. LS4:1 Explain how changes to biodiversity in a system would impact human resources (e.g., food, medicine, and clean water) and "ecosystem services" (e.g., climate stabilization, decomposition of waste, and pollination). ETS:1 Design, evaluate, and improve a possible solution for maintaining biodiversity of ecosystems.	Ecosystems: Environmental Effects on Population Interactions in Ecosystems Energy in Ecosystems Biomes Invasive Species Changes in Ecosystems Social Interactions & Group Behavior Oh Deer Game Wolf Restoration Producer, Consumer, Decomposer Card Sort Biome Book Invasive Species Animal Communication Biological Change: Biodiversity Solutions to maintain biodiversity Black Death Murder Mystery Engineering Design: Defining & Delimiting Engineering Problems Optimizing the Solution Design Rodent Game	Written Response Multiple Choice Computer-based Paper Based

Science: Earth's Systems

Tennessee Science Standards	Activities	Assessments
ESS2:1 Diagram oceanic and atmospheric convection patterns in a system that flow due to uneven heating of the earth. ESS2:2 Gather evidence to justify that oceanic convection currents in a system are caused by the sun's transfer of thermal energy and differences in salinity leading to global water movement. ESS2:4 Develop and use a model to describe the cycling of water through Earth's systems driven by energy from the sun and the force of gravity. average surface temperature and keeping it habitable.	Oceanic Convection Currents Atmospheric Convection Currents Factors that Affect Climate The Hydrologic Cycle Weather Oceans Scavenger Hunt Ocean Currents Balloon Activity	Written Response Multiple Choice Computer-based Paper Based BENCHMARK #2

3rd 9 weeks

Science: Earth's Systems

Tennessee Science Standards	Activities	Assessments
ESS2:3 Construct an explanation for how atmospheric flow, geographic features, and ocean currents affect the climate of a region through heat transfer. ESS2:4 Develop and use a model to describe the cycling of water through Earth's systems driven by energy from the sun and the force of gravity. ESS2:5 Analyze and interpret data to determine the impact of humans and other organisms on the water cycle, landforms (e.g., rain shadow effect) and atmospheric systems. ESS2:6 Develop a model to explain the role of greenhouse gases in regulating the Earth's average surface temperature and keeping it habitable. ESS2:7 Collect data to provide evidence for how the interactions of air masses result in changes in local weather conditions and how that data can be used to predict probable local weather patterns.	Oceanic Convection Currents Atmospheric Convection Currents Factors that Affect Climate The Hydrologic Cycle Weather Oceans Scavenger Hunt Ocean Currents Balloon Activity	Written Response Multiple Choice Computer-based Paper Based BENCHMARK #2

Science: Earth & Human Activity

Tennessee Science Standards	Activities	Assessments
ESS3:1 Use data to explain the consumption and sustainability of natural resources (non-renewable and renewable) and the resulting impact on Earth's system. ESS3:2 Investigate and compare existing and developing technologies that utilize renewable and alternative energy resources. ESS3:3 Obtain, evaluate, and communicate information about the impacts of human activities on the biosphere including conservation, habitat management, species endangerment, and extinction.	Natural Resources Human Impacts on Earth's Systems Renewable/ Non-renewable resources Card sort Research Developing technologies Alternative fuel sources	Written Response Multiple Choice Computer-based Paper Based

4th 9 Weeks

Curriculum Review/Remediation

BENCHMARK #3

Various Practice Tests during this window

TCAP Testing

End of Year Activities, Celebrations, etc.

If you have any questions or concerns about materials, please contact Roseanna Self (423)272-7651 or selfr@rcschool.net