



Gulfport School District SEVENTH GRADE

Quarter 4: Blueprint SCIENCE

Content Strands: Inquiry (I), Life (L), Earth and Space (E), and Physical Science (P)		
QTR	Competency/Objective	
	Design and conduct a scientific investigation utilizing appropriate process skills and technology. (I)	
1-4 Tested 4	1a	Design, conduct, and draw conclusions from an investigation that includes using experimental controls. (DOK 3)
1-4 Tested 4	1b	Discriminate among observations, inferences, and predictions. (DOK 1)
1-4 Tested 1 Tested 2 Tested 4 Tested 4	1c	Collect and display data using simple tools and resources to compare information (using standard, metric, and non-standard measurement). (DOK 2) <ul style="list-style-type: none"> • Tools (e.g., English rulers [to the nearest one-sixteenth of an inch], metric rulers [to the nearest millimeter], thermometers, scales, hand lenses, microscopes, balances, clocks, calculators, anemometers, rain gauges, barometers, hygrometers, telescopes, compasses, spring scales) • Tools (e.g., pH indicators, stopwatches) • Types of data (e.g., linear measures, mass, volume, temperature, area, perimeter) • Resources (e.g., Internet, electronic encyclopedias, journals, community resources, etc.)
1-4 Tested 4	1d	Organize data in tables and graphs and analyze data to construct explanations and draw conclusions. (DOK 3)
1-4 Tested 4	1e	Communicate results of scientific procedures and explanations through a variety of written and graphic methods. (DOK 2)
1-4 Tested 4	1f	Explain how science and technology are reciprocal. (DOK 1)
1-4 Tested 4	1g	Develop a logical argument to explain why scientists often review and ask questions about the results of other scientists' work. (DOK 3)
1-4 Tested 4	1h	Make relationships between evidence and explanations. (DOK 2)

*These skills are tested during the indicated Quarter and correlated with the Mathematics pacing guide.



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QTR	Competency/Objective	
Determine how organisms co-exist in their environment. (L)		
4	3a	Assess how an organism's chances for survival are influenced by adaptations to its environment. (DOK 2) <ul style="list-style-type: none"> • The importance of fungi as decomposers • Major characteristics of land biomes (e.g., tropical rainforests, temperate rainforests, deserts, tundra, coniferous forests/taiga, and deciduous forests) • Adaptations of various plants to survive and reproduce in different biomes
4	3c	Evaluate how health care technology has improved the quality of human life (e.g., computerized tomography [CT], artificial organs, magnetic resonance imaging [MRI], ultrasound). (DOK 3)
Describe the properties and structure of the Sun and the Moon with respect to the Earth. (E)		
4	4d	Conclude why factors, such as lack of resources and climate can limit the growth of populations in specific niches in the ecosystem. (DOK 2) <ul style="list-style-type: none"> • Abiotic factors that affect population, growth, and size (quantity of light, water, range of temperatures, soil compositions) • Cycles of water, carbon, oxygen, and nitrogen in the environment • Role of single-celled organisms (e.g., phytoplankton) in the carbon and oxygen cycles
4	4g	Research and evaluate the use of renewable and nonrenewable resources and critique efforts in the United States including (but not limited to) Mississippi to conserve natural resources and reduce global warming. (DOK 3) <ul style="list-style-type: none"> • How materials are reused in a continuous cycle in ecosystems (e.g., Mississippi Ethanol Gasification Project to develop and demonstrate technologies for the conversion of biomass to ethanol) • Benefits of solid waste management (reduce, reuse, recycle) • Conserving renewable and nonrenewable resources (e.g., The Recycling and Solid Waste Reduction Program in Jackson, MS)
4	4h	Predict weather events by analyzing clouds, weather maps, satellites, and various data. (DOK 3)