



Gulfport School District PACING GUIDE

FIRST GRADE SCIENCE

Content Strands: Inquiry (I), Life (L), Earth and Space (E), and Physical Science (P)		
QTR	Competency/Objective	
Understand how to plan and carry out a simple scientific investigation. (I)		
4	1a	Demonstrate an understanding of a simple investigation by asking appropriate questions about objects, organisms, and events. (DOK 2)
1	1b	Compare, sort, and group objects according to their attributes. (DOK 2)
1-3	1c	Use simple tools (e.g., rulers, scales, hand lenses, thermometers, microscopes) to gather information. (DOK 1)
Introduced 1.2*		<ul style="list-style-type: none"> • Length, using nonstandard units (e.g., paper clips, Unifix cubes, etc.)
Introduced 3.1*		<ul style="list-style-type: none"> • Length, using standard units (inches, centimeters)
Introduced 2.1*		<ul style="list-style-type: none"> • Weight, using a balance scale with and without nonstandard units
Introduced 2.1*		<ul style="list-style-type: none"> • Capacity, using nonstandard units
2	1d	Match a simple problem to a technological solution related to the problem (e.g., dull pencil – sharpener, bright light – sunglasses, hot room – fan, cold head – hat, heavy baby – stroller). (DOK 1)
4	1e	Use diagrams and written and oral expression to describe ideas or data. (DOK 2)
4	1f	Predict the results of an investigation if it is repeated. (DOK 2)
Develop an understanding of properties of objects and materials, position and motion of objects, and properties of heat and magnetism. (P)		
1	2a	Recognize that most things are made of parts. (DOK 1)
3	2b	Describe properties and changes of objects and materials. (DOK 1)
		<ul style="list-style-type: none"> • Processes of melting and freezing • How water evaporates and disappears into the atmosphere • How water condenses onto cold surfaces
2	2c	Describe the effects of various forms of motion and of forces on objects. (DOK 2)
		<ul style="list-style-type: none"> • Different forms of motion (sliding, rolling, straight line, circular, back-and-forth) • Effects that motion can produce (spilling, breaking, bending)
2	2d	Differentiate between interactions of two magnets and the interaction of a magnet with objects made of iron, other metals, and nonmetals. (DOK 1)
3	2e	Describe changes in shadows over time and predict how a shadow will look as the light source moves. (DOK 2)
2	2f	Compare and classify solids and liquids. (DOK 2)
1	2g	Identify vibrating objects that produce sound and classify sounds (e.g., high or low pitched, loud or soft). (DOK 1)

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



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Develop an understanding of the characteristics, structures, life cycles, interactions, and environments of organisms. (L)		
4	3a	Classify animals and plants by observable features (e.g., size, appearance, color, motion, habitat). (DOK 2)
4	3b	Describe the primary function of the major body organs (brain, skin, heart, lungs, stomach, intestines, bones, and muscles). (DOK 2)
4	3c	Communicate the importance of food and explain how the body utilizes food. (DOK 2)
4	3d	Chart and compare the growth and changes of animals from birth to adulthood. (DOK 2)
4	3e	Identify the basic needs of plants and animals and recognize that plants and animals both need to take in water, animals need food, and plants need light. (DOK 1)
4	3f	Identify and label the parts of a plant. (DOK 2)
Develop an understanding of the properties of Earth materials, objects in the sky, and changes in Earth and sky. (E)		
3	4a	Compare and classify Earth materials. (DOK 1) <ul style="list-style-type: none"> • Physical attributes of rocks (e.g., large/small, heavy/light, smooth/rough, hard/crumbly, dark/light, etc.) • Physical attributes of soil (e.g., smell, texture, color, etc.)
1-4	4b	Identify Earth landforms and bodies of water (e.g., continents, islands, peninsulas, oceans, rivers, lakes, ponds, creeks). (DOK 1)
1-4	4c	Observe, identify, record, and graph daily weather conditions. (DOK 3)
2	4d	Categorize types of actions that cause water, air, or land pollution. (DOK 2)
3	4e	Collect, categorize, and display various ways energy from the Sun is used. (DOK 2)
3	4f	Identify relationships between lights and shadows and illustrate how the shape of the Moon changes over time. (DOK 1)
1-4	4g	Distinguish characteristics of each season and describe how each season merges into the next. (DOK 1)