

First Grade Science Pacing Guide

August 2016

1 st Nine Weeks	2 nd Nine Weeks	3 rd Nine Weeks	4 th Nine Weeks
<p><u>Scientific Investigation, Reasoning, and Logic</u></p> <ul style="list-style-type: none"> • The sense are used to observe difference in physical properties(1.1a) • Observations are made from multiple positions to achieve a variety of perspectives and are repeated to ensure accuracy(1.1b) • Objects or events are classified and arranged according to characteristics or properties (1.1c) • Simple tools are used to enhance observations (1.1d) • Length, mass, volume and temperature are measured using nonstandard units (1.1e) • Inferences are made and conclusions are drawn about familiar objects and events(1.1f) 	<p style="text-align: center;">—————→</p> <p><u>Interrelationships in Earth/Space Systems</u></p> <ul style="list-style-type: none"> • The sun is the source of energy and light that warms the land, air, and water (1.6a) • The suns relative position in the morning is east and in the late afternoon is west (1.6b) 	<p style="text-align: center;">—————→</p> <p><u>Earth Patterns, Cycles, and Change</u></p> <ul style="list-style-type: none"> • Changes in temperature, light, and precipitation affect plants and animals including humans (1.7a) • There are relationship between daily and seasonal changes (1.7b) • Changes in temperature, light and precipitation can be observed and recorded over time (1.7c) <p><u>Resources</u></p> <ul style="list-style-type: none"> • Identification of natural (1.8a) • Factors that affect air and water quality (1.8b) • Recycling, reusing, and reducing consumption of natural resources (1.8c) 	<p style="text-align: center;">—————→</p> <p style="text-align: center;">—————→</p> <p><u>Life Processes (1.4, 1.5)</u></p> <ul style="list-style-type: none"> • Plants need nutrients, air, water ,light and a place to grow (1.4a) • Basic parts of plants (1.4b) • Plants can be classified based on a variety of characteristics(1.4c) • Basic needs include adequate air, food, water, shelter and space (habitat) (1.5a) • Animals, including humans, have many different physical characteristics (1.5b) • Animals can be classified according to a variety of characteristics(1.5c)

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<ul style="list-style-type: none">• A question is developed from one or more observations(1.1g)• Predictions are made based on patterns of observations (1.1h)• Observations and data are recorded, analyzed and communicated orally and with simple graphs, pictures, written statements and numbers(1.1i)• Simple investigations and experiments are conducted to answer questions.(1.1j)			

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<p><u>Force, Motion, and Energy</u></p> <ul style="list-style-type: none">•Objects may have straight, circular, back and forth motions (1.2a)•Objects may vibrate and produce sounds (1.2b)•Pushes or pulls can change movement of an objects (1.2c) <p><u>Matter</u></p> <ul style="list-style-type: none">• Some liquids will separate when mixed with water, but others will not (1.3a)• Some solids will dissolve in water, but others will not (1.3b)• Some substances will dissolve more readily in hot water rather than cold water (1.3c)			

First Grade Science Vocabulary

1 st Nine Weeks	2 nd Nine Weeks	3 rd Nine Weeks	4 th Nine Weeks
<p><u>1.1 Scientific Investigations, Reasoning and Logic</u></p> <p>Investigations Physical properties Attributes Properties Temperature Evidence Random Guesses Similarities Differences Observations Magnifying glass Thermometer Ruler Classifying Data Graphs-Venn diagram Pictures Length Measure</p>	<p><u>1.6 Earth and Space Systems</u></p> <p>Sunlight Temperature Source of energy Sun Rotation East West Earth Morning Afternoon</p>	<p><u>1.7 Earth Patterns, Cycles and Change</u></p> <p>Nature Natural cycles Weather Precipitation Rain Snow Ice Seasonal changes Spring, Summer, Fall (Autumn), Winter Plants Growth Budding Loosing leaves Animal behaviors</p>	<p><u>1.4 Life Processes</u></p> <p>Life needs Nutrients Light water Suitable place to grow/live Parts of plant Seeds Roots Stems Leaves Flowers Fruits Characteristics Edible Non-edible Flowering Non-flowering Evergreen Deciduous</p>

First Grade Science Vocabulary

1 st Nine Weeks	2 nd Nine Weeks	3 rd Nine Weeks	4 th Nine Weeks
Standard units Non-standard units Predictions Random guesses Volume Mass Experiments Inferences Conclusion <u>1.2 Forces, Motion and Energy</u> Types of motion/movement Straight Circular Back and forth Pulls Pulls Vibrations Size Shape Force		Hibernation Migration Body covering People Dress Recreation Work <u>1.8 Resources</u> Environment Living Non-living Surface Wild life Natural resources Animals Air Pollution Plants	<u>1.5 Life Processes</u> Physical characteristics Humans Animals Body coverings Body shape Appendages Methods of movement Wild/Domestic Habitat Water homes Land homes Scales Fins

First Grade Science Vocabulary

1 st Nine Weeks	2 nd Nine Weeks	3 rd Nine Weeks	4 th Nine Weeks
<p><u>1.3 Matter</u> Matter Solids Gases Dissolve Mixture Liquids Separate Dissolve</p>		<p>Water Land Minerals Forests Soil Pollution Recycling Reusing Reducing consumption Air/water quality Runoff water Parks</p>	