Prince George County Public Schools
Second Grade Science Pacing Guide

SOLs should be taught so that each student will have mastered that particular SOL by the end of the nine week period. The skills listed in each nine weeks will be assessed unless designated as Introduced or Not Tested.

First Nine Weeks	Second Nine Weeks
The student will…	***The student will…***
2.1… demonstrate an understanding of scientific reasoning, logic, and the nature of science by planning and conducting investigations in which a) observation and predictions are made and questions are formed b) observations are differentiated from personal interpretation; c) observations are repeated to ensure accuracy; d) two or more characteristics or properties are used to classify items: e) length, volume, mass, and temperature measurements are made in metric units (centimeters, meters, liters, degrees Celsius, grams, kilograms) and standard English units (inches, feet, yards, cups, pints, quarts, gallons, degrees Fahrenheit, ounces, pounds); f) time is measured using proper tools; g) conditions that influence a change are identified and inferences are made; h) data are collected and recorded, and bar graphs are constructed using numbered axes; i) data are analyzed, and unexpected or unusual quantitative data are recognized; j) conclusions are drawn; k) observations and data are communicated m) current applications are used to reinforced science concepts	2.1 ⇨ Extend objective from 1st nine weeks
2.1 ► Introduced – NOT Tested	**2.1 ► NOT Tested**
2.2…investigate and understand that natural and artificial magnets have certain characteristics and attract specific types of metals. Key concepts include a) magnetism, iron, magnetic/nonmagnetic, poles, attract/repel; b) important applications of magnetism	2.6…investigate and understand basic types, changes, and patterns of weather. Key concepts include a) identification of common storms and other weather phenomena b) the uses and importance of measuring and recording weather data c) the uses and importance of tracking weather data over time
2.3…investigate and understand basic properties of solids, liquids, and gases. Key concepts include a) identification of distinguishing characteristics of solids, liquids and gases b) measurement of mass and volume of solids and liquids c) changes in phases of matter with the addition or removal of energy	2.7…investigate and understand that weather and seasonal changes affect plants, animals, and their surroundings. b) weathering and erosion of the land surface.
	2.8…investigate and understand that plants produce oxygen and food, are a source of useful products, and provide benefits in nature. Key concepts include b) plants can help reduce erosion

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Third Nine Weeks	Fourth Nine Weeks
The student will…	***The student will…***
2.1 ⇨ Extend objective from 1st and 2nd nine weeks	2.1 ⇨ Extend objective from 1st, 2nd, and 3rd nine weeks
2.4…investigate and understand that plants and animals undergo a series of orderly changes as they mature and grow. Key concepts include a) animal life cycles	2.4…investigate and understand that plants and animals undergo a series of orderly changes in their life cycles. Key concepts include b) plant life cycles
2.5…investigate and understand that living things are part of a system. Key concepts include a) living organisms are interdependent with their living and nonliving surroundings; b) an animal's habitat includes adequate food, water, shelter or cover and space c) habitats change over time due to many influences d) fossils provide information about living systems that were on Earth years ago	2.5…investigate and understand that living things are part of a system. Key concepts include a) living organisms are interdependent with their living and nonliving surroundings; and c) habitats change over time due to many influences d) fossils provide information about living systems that were on Earth years ago.
2.7…investigate and understand that weather and seasonal changes affect plants, **animals, and their surroundings**. a) effects of weather and seasonal changes on the growth and behavior of living things (migration, hibernation, camouflage, adaptation)	2.7…investigate and understand that weather and seasonal changes affect **plants,** animals, **and their surroundings.** a) effects on growth and behavior of living things (camouflage, adaptation, dormancy)
	2.8…investigate and understand that plants produce oxygen and food, are a source of useful products, and provide benefits in nature. Key concepts include a) important plant products (fiber, cotton, oil, spices, lumber, rubber, medicines and paper); b) the availability of plant products affects the development of a geographic area; and c) plants provide oxygen, homes and food for many animals