

Kindergarten Parent Guide - Science

	1 st Grading Period	2 nd Grading Period	3 rd Grading Period	4 th Grading Period
Topics	Objects Magnets and Motion	Light and Shadows The Sky	Rocks, Soil, Water Plants	Plants Animals
Topic Focus	Scientific Investigation & Reasoning <ul style="list-style-type: none"> Observe & record properties of objects. Observe, record, & discuss how materials can be changed by heating or cooling. Explore interactions between magnets & various materials Content <ul style="list-style-type: none"> Sorting by properties: big/small, heavy/light, shape, color, & texture. Melting & freezing matter. Exploring thermal energy, light energy, & sound energy. Performance Task: Forms of matter	Scientific Investigation & Reasoning <ul style="list-style-type: none"> Students will observe describe and illustrate objects in the sky. Predict patterns Blocked light causes shadows Identify and use patterns to describe phenomena and design solutions. Content <ul style="list-style-type: none"> Different light sources affect what we can see Blocked light causes shadows We can observe & describe objects in the sky, such as clouds, Moon, stars, & the Sun. Performance Task: Patterns in the sky	Scientific Investigation and Reasoning <ul style="list-style-type: none"> Identify events that have repeating patterns. Understand why rocks, soil, and water are useful. Identify characteristics of Plants, Insects, and life cycles Content <ul style="list-style-type: none"> Describe how rocks, soil, and water are useful. Sort plants and insects Identify basic parts of plants and insects. 	Scientific Investigation & Reasoning <ul style="list-style-type: none"> Sort animals based on physical characteristics. Identify basic parts of animals. Conduct research on an animal. Content <ul style="list-style-type: none"> Sort animals by color, size, body covering, & identify basic parts of animals Describe how animals meet their needs with specific animal structures. The student is expected to research his/her own animal, the habitat it lives in, & the physical characteristics of the animal. Performance Task: Animal Characteristics
Fundamental Questions	<ul style="list-style-type: none"> What information is important to record when making observations of matter? What are the properties of objects that are attracted to a magnet? 	<ul style="list-style-type: none"> What different objects can we see in the sky during the day or at night? What observations can we make about changes in day to day weather and the seasons? 	<ul style="list-style-type: none"> What basic needs must be met for living things to survive? What are the parts of plants? 	<ul style="list-style-type: none"> How can we sort animals into groups by their physical characteristics? What are the parts of animals?
Suggestions for Parental Involvement/Support	<ul style="list-style-type: none"> Melt ice cubes in the sun. Try to pick up items with magnets Sort objects by their properties around your home. 	<ul style="list-style-type: none"> Observe the stars and the moon. Discuss how light travels through some objects and is blocked by others. 	<ul style="list-style-type: none"> Go on a rock hunt at home. Plant a garden at home. 	<ul style="list-style-type: none"> Take a trip to the zoo to observe animals & their habitats.