

Science - Kindergarten

Month	Content	Skills	Assessment	Essential Questions
	<ul style="list-style-type: none"> • Weather & Seasons 	<ul style="list-style-type: none"> • Weather is what the air is like outside at a certain time. • Weather can be described by: <ul style="list-style-type: none"> temperature – warm, cool, hot, cold wind – fast, slow, none precipitation – rain, snow, sleet, hail sky conditions – sunny, cloudy, partly cloudy • Weather changes from day to day. • Weather changes with the seasons. • People measure weather with tools such as thermometers & rain gauges. <p><u>ESSENTIAL VOCABULARY:</u> rainy, snowy, sunny, windy, cloudy, thermometer, seasons, Spring, Summer, Winter, Fall</p>	<ul style="list-style-type: none"> • Make observations of patterns & events. • Order & sequence events 	<ul style="list-style-type: none"> • How do the seasons change? • How does the weather change? • How can the weather & seasons be described?

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	<ul style="list-style-type: none"> • Objects Around Us 	<ul style="list-style-type: none"> • Objects and/or materials have properties that can be observed through the senses. Properties include color, hardness, odor, taste, sound, etc. • Objects and/or materials can be sorted according to their properties. • The position of an object can be changed by pushing & pulling. • The position of an object can be described by comparing it to something else. (For example, next to, to the left or right of, over, under, on top of, etc.) • Measurements can be made using non-standard units. • Magnets will attract objects that contain iron or steel. • Objects have certain properties (weight, shape, size, etc.) that determine whether or not it will sink or float. • Objects have properties that can be observed, described, and/or measured: size, shape, weight, texture, color <p><u>ESSENTIAL VOCABULARY:</u> object, sort, push, pull, magnets, senses</p>	<ul style="list-style-type: none"> • Manipulate materials through teacher direction & discovery. • Utilize senses for making observations. • Observe cause & effect relationships. • Classify objects based on certain properties. 	<ul style="list-style-type: none"> • How can objects be described using the senses? • How can an object be changed or described?

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	<ul style="list-style-type: none"> • Animals 	<ul style="list-style-type: none"> • Animals need air, water, & food in order to live and thrive. • Animals grow & change in a variety of ways. • Some animal characteristics are influenced by & need to adapt to the changing environment using camouflage, movement, hibernation, & migration. • Animals have various kinds of similarities & differences. • Animals may use legs, wings, or fins in order to move to find food & shelter, or escape predators. • Animals use special body parts such as teeth, claws, tongue, etc. in order to eat & drink. • Animals use special body parts such as shells, spines, feathers, fur, & scales to protect themselves from predators & other environmental conditions. • Each kind of animal goes through its own stages of growth & development. 	<ul style="list-style-type: none"> • Classify animals based on same/different characteristics. • Order & sequence objects and/or events. • Make observations of objects & events. 	<ul style="list-style-type: none"> • How are animals alike & different? • How do animals grow & change? • What do animals need to survive? • In what kind of environment do animals live?

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	<ul style="list-style-type: none"> • Animals (continued) 	<ul style="list-style-type: none"> • Growth is the process by which animals increase in size. • Some animals move from place to place to meet their needs. • Each generation of animals goes through changes in form from young to adult. This completed sequence of changes is called a life cycle & includes the beginning of a life, development into an adult, reproduction, and death. • Some animal characteristics are influenced by the changing environmental conditions including: fat storage in Winter, thick coats in Winter, camouflage, & shedding of fur. • Humans are animals & need a variety of healthy foods, exercise, & rest in order to grow & maintain good health. • Good health habits for people include hand washing & personal cleanliness. • Senses can provide essential information to animals about their environment. 		

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	<ul style="list-style-type: none">• Animals (continued)	<ul style="list-style-type: none">• When the environment changes, some animals survive & reproduce, & others die or move to new locations.• Non-living things do not live & thrive.• Non-living things can be human created or naturally occurring. <p>• <u>ESSENTIAL VOCABULARY:</u> animal, life cycle, same, different, shelter, environment</p>		

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	<ul style="list-style-type: none"> • Plants 	<ul style="list-style-type: none"> • Plants require air, water, light, & food in order to live & thrive. • Each plant has certain structures that help it grow & survive. <ul style="list-style-type: none"> • Roots – hold the plant in place, store food & water. • Leaves – soak up the sun, make food. • Stems – bring water to the leaves, support the plant. • Flowers (some) – grow into a fruit, hold seeds. • Seeds – grow new plants. • Life cycles of some plants include changes from seed to mature plant. • Each kind of plant goes through its own stages of growth & development that may include seed, young plant, & mature plant. • Plants respond to seasonal changes. • Growth is the process by which plants increase in size. 	<ul style="list-style-type: none"> • Order & sequence objects and/or events. • Make observations of objects & events. • Classify various kinds of seeds based on color, size, & shape. 	<ul style="list-style-type: none"> • What are the parts of a plant? • What does each part do to help the plant grow? • How do plants grow & change? • What does a plant need to survive?

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	<ul style="list-style-type: none">Plants (continued)	<ul style="list-style-type: none">Non-living things do not live & thrive.Non-living things can be human created or naturally occurring. <p><u>ESSENTIAL VOCABULARY:</u> plant, same, different, sort, roots, stem, leaves, flower, seeds, food, life cycle</p>		