

Science – Young 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 <u>temperature</u> – warm, cool, hot, cold <u>wind</u> – fast, slow, none <u>precipitation</u> – rain, snow, sleet, hail <u>sky conditions</u> – 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 observation of patterns & events Order & sequent events within a season 	<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>ESENTIAL VOCABULARY</u> 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 & 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 animals 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"> • Growth is the process by which animals increase in size. • Some animals move from place to place to meet their needs. • Each generation of animal 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, & 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. • 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, 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. • 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>	<ul style="list-style-type: none"> • Order & sequence objects and/or events. • Make observations of objects & events. 	<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?