

Teacher: Core Science Grade K

Year: 2010-11

Course: Science Grade K

Month: All Months

September

SPACE:CYCLES (SEASONS)

Essential Questions	Content	Skills	Vocabulary	Assessments	Lessons	Resources	Standards
	Fall Winter Spring Summer	General Skill: Verbally describe characteristics of each season by weather, types of clothes one would wear, and activities one could participate in.	season weather temperature				4.1.1a.4- weather changing from day to day and through the seasons

LIFE CYCLES: APPLES

Essential Questions	Content	Skills	Vocabulary	Assessments	Lessons	Resources	Standards
	Growth Parts of an apple Uses	General Skills: Sequence the growth of an apple tree-seed, tree, apple General Skills: Verbally identify parts of an apple-skin, flesh, core, seeds, stem General Skills: List the	apple seeds flesh				4.4.1a- Plants and animals have life cycles. These may include beginning of a life, development into an adult, reproduction as an adult, and eventually death. 4.4.1b-Each

			different types of apples (red, yellow, green) and their uses (pies, sauce, juice, cider, etc...)				kind of plant goes through its own stages of growth and development that may include seed, young plant, and mature plant. 4.4.1d-Life cycles of some plants include changes from seed to mature plant. 4.4.2a-Growth is the process by which plants and animals increase in size.
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LIFE CYCLES: PUMPKINS

Essential Questions	Content	Skills	Vocabulary	Assessments	Lessons	Resources	Standards
	Uses	General Skills: List the different uses for pumpkins (pies, bread, jack 'o lanterns, etc...)	pumpkin seeds flesh				4.5.3a-Humans need a variety of healthy foods, exercise, and rest in order to grow and maintain good

November

Essential Questions

Skills

Assessments

Resources

Standards

General Skills:
Predict if objects will/will not be attracted by magnets

General Skill:
Show objects that are/not attracted by magnets

4.5.1e-Magnetism is a force that may attract or repel certain materials.

4.3.1e-The material(s) an object is made up of determine some specific properties of the object (sink/float, conductivity, magnetism). Properties can be observed or measured with tools such as hand lenses, metric rulers, thermometers, balances, magnets, circuit testers, and graduated cylinders.

4.3.1f-Objects and/or materials can be sorted or classified according to their properties.

FORCES AND MOTION:BUOYANCY

Essential Questions	Content	Skills	Vocabulary	Assessments	Lessons	Resources	Standards
	Sink/Float	General Skills: Predict which objects will/not float/sink General Skills: Show objects that float/sink	sink float				4.3.1e-The material(s) an object is made up of determine some specific properties of the object (sink/float, conductivity, magnetism). Properties can be observed or measured with tools such as hand lenses, metric rulers, thermometers, balances, magnets, circuit testers, and graduated cylinders. 4.3.1f-Objects and/or materials can be sorted or classified according to their properties.

**J
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y** CHARACTERISTICS OF LIFE FUNCTIONS: POLAR ANIMALS

Essential Questions	Content	Skills	Vocabulary	Assessments	Lessons	Resources	Standards
	Polar Bear *Adaptability *Food *Where they live	General Skills: Verbally describe characteristics of the polar	polar blubber adapt				4.1.1a-Animals need air, water, and food in order to live and thrive. 4.2.2a-Plants

		animals					and animals closely resemble their parents and other individuals in their species. 4.2.2b-Plants and animals can transfer specific traits to their offspring when they reproduce. 4.3.1a-Each animal has different structures that serve different functions in growth, survival, and reproduction. 4.3.1c-In order to survive in their environment, plants and animals must be adapted to that environment. 4.3.2a-Individuals within a species may compete with each other for food, mates, space, water, and shelter in their environment. 4.5.2e-Particular animal characteristics are influenced by changing environmental conditions
	*Offspring *Other Walrus						
	*Adaptability *Food *Where they live						
	*Offspring *Other Penguin						
	*Adaptability *Food *Where they live						
	*Offspring *Other Seal						
	*Adaptability *Food *Where they live						
	*Offspring *Other						

							including: fat storage in winter, coat thickness in winter, camouflage, shedding of fur. 4.5.2f-Some animal behaviors are influenced by environmental conditions. These behaviors may include: nest building, hibernating, hunting, migrating, and communicating.
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CHARACTERISTICS OF LIFE FUNCTION: DENTAL HEALTH

F e b r u a r y	Essential Questions	Content	Skills	Vocabulary	Assessments	Lessons	Resources	Standards
		Hygiene	General Skills: List and describe ways to take care of your teeth (visit the dentist, brush 3x's/day, eat healthy foods, floss)	tooth teeth floss brush dentist				4.5.3a-Humans need a variety of healthy foods, exercise, and rest in order to grow and maintain good health. 4.5.3b-Good health habits include hand washing and

							personal cleanliness; avoiding harmful substances (including alcohol, tobacco, illicit drugs); eating a balanced diet; engaging in regular exercise.
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M **CHARATERISTICS OF LIFE FUNCTIONS: NUTRITION**

Essential Questions	Content	Skills	Vocabulary	Assessments	Lessons	Resources	Standards
	Types of Food Healthy/Non-Healthy Healthy Habits/Choices	General Skills: Classify foods (fruits, vegetables, meats/proteins, dairy, grains) General Skills: Sort types of foods into healthy/nonhealthy groups General Skills: List healthy habits and ways to take care of our bodies (exercise, sleep, visiting the doctor, eating healthy foods)	food groups doctor exercise nutrition				4.1.1a- Animals need air, water, and food in order to live and thrive. 4.4.2b- Food supplies the energy and materials necessary for growth and repair. 4.5.3a- Humans need a variety of healthy foods, exercise, and rest in

								order to grow and maintain good health. 4.5.3b- Good health habits include hand washing and personal cleanliness; avoiding harmful substances (including alcohol, tobacco, illicit drugs); eating a balanced diet; engaging in regular exercise.
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**A
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l** CHARACTERISTICS OF LIFE FUNCTIONS: FIVE SENSES

Essential Questions	Content	Skills	Vocabulary	Assessments	Lessons	Resources	Standards
	Sight Hearing Taste Feeling Smell	General Skills: Name the body part for each sense General Skills: Verbally explain the purpose of each sense	senses sight hearing taste touch smell eyes nose ears skin tongue				4.5.2c-Senses can provide essential information (regarding danger, food, mates, etc.) to animals about their environment.

		General Skills: Apply senses to describe the environment around them and explain how we use our senses.					
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May **ECOLOGY:LIFE CYCLES**

Essential Questions	Content	Skills	Vocabulary	Assessments	Lessons	Resources	Standards
	Frog Butterfly Plant	General Skills: Sequence the life cycle of a frog (egg, tadpole, froglet, frog) General Skills: Sequence the life cycle of a butterfly (egg, caterpillar, chrysalis, butterfly) General Skills: Sequence the life cycle of a plant (seed, sprout, plant, flower) General Skills: Verbally	life cycle egg tadpole froglet frog caterpillar chrysalis butterfly seed sprout plant flower sun stem root soil air love water				4.1.1b-Plants require air, water, nutrients, and light in order to live and thrive. 4.3.1b-Each plant has different structures that serve different functions in growth, survival, and reproduction. 4.4.1a-Plants and animals have life cycles. These may include beginning of a life, development into an adult, reproduction as an adult, and eventually

			identify parts of a plant (roots, stem, leaves, flower) General Skills: List needs of a plant (sunlight, water, air, soil, love)				death. 4.4.1b-Each kind of plant goes through its own stages of growth and development that may include seed, young plant, and mature plant. 4.4.1d-Life cycles of some plants include changes from seed to mature plant. 4.4.1e-Each generation of animals goes through changes in form from young to adult. This completed sequence of changes in form is called a life cycle. Some insects change from egg to larva to pupa to adult. 4.4.1f-Each kind of animal goes through its own stages of growth and
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								development during its life span. 4.4.2a- Growth is the process by which plants and animals increase in size.
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e CHARACTERISTIC OF LIFE FUNCTIONS:ZOO ANIMALS

Essential Questions	Content	Skills	Vocabulary	Assessments	Lessons	Resources	Standards
	Animals of the zoo	General Skills: Verbally identify zoo animals and their characteristics	zoo environment habitat				4.4.1f-Each kind of animal goes through its own stages of growth and development during its life span. 4.5.1a-All living things grow, take in nutrients, breathe, reproduce, and eliminate waste.