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Introduction

Core Life Science I is one of the three courses in the Core Science I Collection. It is an introductory course that teaches about the characteristics, needs, and uses of plants, the characteristics and needs of animals for survival, the life cycles of plants and animals, types of habitats, and adaptation to habitat conditions. The Course has 14 lessons organized in 4 Units and its learning objectives align with Common Core Science objectives for grades K to 2. There are 203 audio-supported instruction pages, 42 printable activity sheet pages, 102 defined vocabulary words, and a set of 140 Quiz questions.

Unit 1: Plants

Lesson 1: Basic Needs of Plants

Common Core Standards

- LS1.A Structure and Function
- LS1.B Growth and Development of Organisms
- LS1.C Organization for Matter and Energy Flow in Organisms
- LS2.A Interdependent Relationships in Ecosystems
- LS2.B Cycles of Matter and Energy Transfer in Ecosystems
- LS2.C Ecosystem Dynamics, Functioning, and Resilience
- LS4.C Adaptation

Learning Objectives

- to learn about the basic needs of plants to grow and survive

Defined Vocabulary Words

- survive, soil

Activity Type

- Fill in the bubbles with the basic needs of plants.

Lesson Components

Total Learning Objects – 26

Instruction Pages - 14

Activity Pages - 3

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 2: Plant Parts

Common Core Standards

- LS1.A Structure and Function
- LS1.B Growth and Development of Organisms
- LS1.D Information Processing

Learning Objectives

- to learn the basic parts of plants

- to learn what each plant part does

Defined Vocabulary Words

- roots, stem, leaves, flowers, cones

Activity Type

- Draw a plant. Label the roots, stem, leaves, flower, and seeds.

Lesson Components

Total Learning Objects – 26

Instruction Pages - 14

Activity Pages - 3

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 3: Characteristics of Plants

Common Core Standards

- LS1.A Structure and Function
- LS1.B Growth and Development of Organisms
- LS4.C Adaptation

Learning Objectives

- to learn how plants can be classified according to their characteristics
- to learn about characteristics of different plants

Defined Vocabulary Words

- classify, edible, non-edible, flowering, non-flowering, deciduous, evergreen, spores

Activity Type

- Put a checkmark in the correct box describing the plant as edible or non-edible.
- Draw an evergreen tree and a deciduous tree.

Lesson Components

Total Learning Objects – 25

Instruction Pages - 15

Activity Pages - 4

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 4: Benefits of Plants

Common Core Standards

- LS1.C Organization for Matter and Energy Flow in Organisms

Learning Objectives

- to learn about the benefits plants provide to people and other animals

Defined Vocabulary Words

- fruit, nut, berries, minerals, grain, nutrients, soil erosion, spices, vitamins

Activity Type

- Circle the items that come from plants.

Lesson Components

Total Learning Objects – 25

Instruction Pages - 13

Activity Pages - 2

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Unit 2: Animals

Lesson 1: Basic Needs of Animals

Common Core Standards

- LS1.A Structure and Function
- LS1.B Growth and Development of Organisms
- LS1.C Organization for Matter and Energy
- LS2.A Interdependent Relationships in Ecosystems
- LS2.B Cycles of Matter and Energy Transfer in Ecosystems
- LS2.C Ecosystem Dynamics, Functioning, and Resilience
- Flow in Organisms

Learning Objectives

- to learn about the basic needs of animals for growth and survival

Defined Vocabulary Words

- survive, shelter, coral, burrow, dissolve, climate

Activity Type

- Draw two things animals need to survive.

Lesson Components

Total Learning Objects – 27

Instruction Pages - 15

Activity Pages - 2

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 2: Physical Characteristics of Animals

Common Core Standards

- LS1.A Structure and Function
- LS1.B Growth and Development of Organisms
- LS1.D Information Processing

Learning Objectives

- to learn about distinguishing physical characteristics of animals

Defined Vocabulary Words

- characteristic, classify, body covering, mammals, fur, scales, feathers, fin, mucus, shell, slither

Activity Type

- Draw an animal with each body covering (fur, feathers, shell, scales, and smooth skin).

Lesson Components

Total Learning Objects – 30

Instruction Pages - 18

Activity Pages - 2

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 3: Other Characteristics of Animals

Common Core Standards

- LS1.A Structure and Function
- LS1.B Growth and Development of Organisms
- LS1.D Information Processing

Learning Objectives

- to learn about non-physical characteristics of animals

Defined Vocabulary Words

- classify, characteristic, environment, climate, wild animals, pets, tame animals

Activity Type

- Write the names of the animals in the column that classifies them by type of animal: pets, wild animals, or tame animals.

Lesson Components

Total Learning Objects – 28

Instruction Pages - 16

Activity Pages - 2

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 4: Offspring

Common Core Standards

- LS2.A Interdependent Relationships in Ecosystems
- LS2.B Cycles of Matter and Energy Transfer in Ecosystems
- LS2.C Ecosystem Dynamics, Functioning, and Resilience
- LS3 Heredity: Inheritance and Variation of Traits
- LS3.A Inheritance of Traits

- L3B. Variation of Traits

Learning Objectives

- to learn about the birth and rearing of animal offspring

Defined Vocabulary Words

- offspring, seedling, resemble, trunk, trot, peck, traits

Activity Type

- Draw a mother animal and its offspring.
- Write how are they the same? How are they different?

Lesson Components

Total Learning Objects – 25

Instruction Pages - 13

Activity Pages - 2

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Unit 3: Life Cycles

Lesson 1: Life Cycle of a Frog

Common Core Standards

- LS1.A Structure and Function
- LS1.B Growth and Development of Organisms

Learning Objectives

- to learn about the life cycle (metamorphosis) of a frog

Defined Vocabulary Words

- amphibian, cold-blooded, metamorphosis, tadpole, gill, hind, froglet, cycle,

Activity Type

- Draw the stages that a frog goes through.
- Label each stage with the correct name.

Lesson Components

Total Learning Objects – 22

Instruction Pages - 10

Activity Pages - 2

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 2: Life Cycle of a Butterfly

Common Core Standards

- LS1.A Structure and Function
- LS1.B Growth and Development of Organisms

Learning Objectives

- to learn about the life cycle (metamorphosis) of a butterfly

Defined Vocabulary Words

- scales, sucking, compound eyes, metamorphosis, cylindrical, caterpillars, molt, expand, larvae, pupae, chrysalis, stubby, mate, cycle

Activity Type

- Draw the stages that a butterfly goes through.
- Label each stage with the correct name.

Lesson Components

Total Learning Objects – 23

Instruction Pages - 11

Activity Pages - 2

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 3: Life Cycle of a Flowering Plant

Common Core Standards

- LS1.A Structure and Function
- LS1.B Growth and Development of Organisms

Learning Objectives

- to learn about the life cycle of flowering plants

Defined Vocabulary Words

- seed, dormant, sprout, seedling, carbon dioxide, budding, flower bud, attract, pollinate, rot

Activity Type

- Draw the stages that a flowering plant goes through.
- Label each stage with the correct name.

Lesson Components

Total Learning Objects – 26

Instruction Pages – 14

Activity Pages - 2

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Unit 4: Habitats**Lesson 1: Types of Habitats**

Common Core Standards

- LS2.A Interdependent Relationships in Ecosystems
- LS2.B Cycles of Matter and Energy Transfer in Ecosystems
- LS2.C Ecosystem Dynamics, Functioning, and Resilience
- LS4 Biological Evolution: Unity and Diversity
- LS4.D Biodiversity and Humans

Learning Objectives

- to learn about types of habitats
- to learn about woodlands, grasslands, and tundra habitats

Defined Vocabulary Words

- habitat, adapted, characteristics, suited, climate, deciduous trees, grazing, desert, woodland, pond, grassland, amphibians

Activity Type

- Sort the words into the matching habitat.

Lesson Components

Total Learning Objects – 29

Instruction Pages - 17

Activity Pages - 2

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 2: More Types of Habitats

Common Core Standards

- LS2.A Interdependent Relationships in Ecosystems
- LS2B Cycles of Matter and Energy Transfer in Ecosystems
- LS2.C Ecosystem Dynamics, Functioning, and Resilience
- LS4 Biological Evolution: Unity and Diversity
- LS4.D Biodiversity and Humans

Learning Objectives

- to learn about rainforest, ocean, and desert habitats

Defined Vocabulary Words

- habitat, adapted, characteristics, suited, climate, marine, microscope, arctic, harsh, equator, humid, ocean, tundra, rainforest, urban

Activity Type

- Sort the words into the matching habitat.

Lesson Components

Total Learning Objects – 33

Instruction Pages - 18

Activity Pages - 2

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 3: Camouflage

Common Core Standards

- LS2.A Interdependent Relationships in Ecosystems
- LS2B Cycles of Matter and Energy Transfer in Ecosystems
- LS2.C Ecosystem Dynamics, Functioning, and Resilience
- LS4 Biological Evolution: Unity and Diversity
- LS4.D Biodiversity and Humans

Learning Objectives

- to learn about protection through camouflaged appearance

Defined Vocabulary Words

- habitat, adapted, survive, physical adaptations, camouflage, predators, desert, woodland, pond, grassland, fawn, surroundings

Activity Type

- Draw an animal in its habitat that uses camouflage.
- Write a sentence to explain what the animal is doing.

Lesson Components

Total Learning Objects – 27

Instruction Pages - 15

Activity Pages - 2

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Reading & Writing Word Skills

Unit 1: Lesson 2

Words With 'ui' Sounding Like 'ew'

ui in **fruit**

Also: juice, recruit, bruise, and cruise

but: blew, few, knew, new, stew, blue, flute, lose, cool, room, to, too, and two.

Unit 1: Lesson 3

Words With 'ous' or 'ious' Endings

The **ous** or **ious** endings mean 'having' or 'full of'

ambitious -- having ambition

courteous -- having or showing courtesy

dangerous - full of danger

envious -- having envy

famous -- having fame

furious - full of fury

Unit 1: Lesson 4

Plural Form of Words Ending in 'y'

berry -- berries

cherry -- cherries

flurry -- flurries

carry -- carries

hurry -- hurries

marry -- marries

worry -- worries

Unit 2: Lesson 1

Words with 'rr'

rr in **burrow**

Also: sorrow, borrow, and tomorrow,

purr, carry, marry, ferry, furry, flurries, hurry, sorry, and worry.

Unit 2: Lesson 2

Words with 'ea'

short e sound: feather, leather, weather, dead, head, lead (metal), and spread.

long a-r sound: bear, pear, tear, and wear.

long e sound: beat, meat, neat, seat, dear, fear, near, smear, tear, beam, cream, dream, scream, team, clean, flea, sea, and tea.

Unit 2: Lesson 3

Words with 'ai'

short e sound: certain, curtain, mountain, and fountain.

long a sound: brain, gain, main, maintain, pain, plain, rain, stain, train, bait, paid, and entertain.

Unit 2: Lesson 4

Words with s and a z Sound

desert, present, pleasant, surprise, lose, choose, nose, hose, rise, raise, praise, wise, ties, tries, toes, cries, buys, boys, and toys.

Unit 3: Lesson 1

Words with ph and an f Sound

amphibian, photograph, telephone, physical, and gopher.

Unit 3: Lesson 2

Plural and Possessive Forms of Words Ending in 'y'

Word Type	Singular	Plural	Singular Possessive	Plural Possessive
Things	butterfly	butterflies	butterfly's	butterflies'
	story	stories	story's	stories'
	boy	boys	boy's	boys'
	toy	toys	toy's	toys'
Action words				
	try	tries		
	cry	cries		
	dry	dries		

Unit 3: Lesson 3

Words with ow and an 'ow' Sound

flower, tower, power, towel, town, frown, gown, brown, clown, bow, cow, how, now, owl, fowl, wow, and crowd.

Words with ou and an 'ow' Sound

loud, proud, pound, sound, out, sprout, trout, doubt, foul, mountain, fountain, and boundary.

Words with ow and a Long o Sound

bow, blow, crow, mow, row, sow, show, slow, snow, tow, own, grown, borrow, sorrow, and tomorrow.

Unit 4: Lesson 1**Compound Words: Places**

woodland, grassland, farmland, Maryland, campground, playground, backyard, barnyard, courtyard, and ballpark.

Compound Words: Personal

heartbeat, eardrum, eyelid, hairbrush, haircut, hairdo, fingernail, thumbnail, toenail, forearm, thighbone, kneebone, underarm, waistline, toothpaste, and underwear.

Unit 4: Lesson 2**Words with a 'shun' Sound**

ocean, passion, precipitation, migration, hibernation, conservation transportation, vacation, question, nation, emotion, imagination, and temptation.

Unit 4: Lesson 3**Compound Words**

Nature: rainforest, rainfall, grasslands, woodlands, butterfly, groundhog, catfish, rattlesnake, grasshopper, sunlight, and wildlife.

Home and personal: breakfast, bedtime, backyard, driveway, staircase, bedroom, toothpaste, dishwasher, cupboard, doorbell, downstairs, tablecloth, teaspoon, seafood, grandmother, grandchild, and birthday.

More Compound Words

sunshine, weekend, thunderstorm, summertime, snowball, basketball, baseball, football, touchdown, goalkeeper, pineapple, grapefruit, homework, handout, clockwise, crosswalk, daylight, downhill, flagpole, forecast, fourteen, horseback, pancake, raincoat, spaceship, outdoors, indoors, outside, inside, overnight, overcast, overlook, textbook, and windshield.