

Next Generation Sunshine State Standards for Science Correlations to The Schoolyard Wildlife Activity Guide

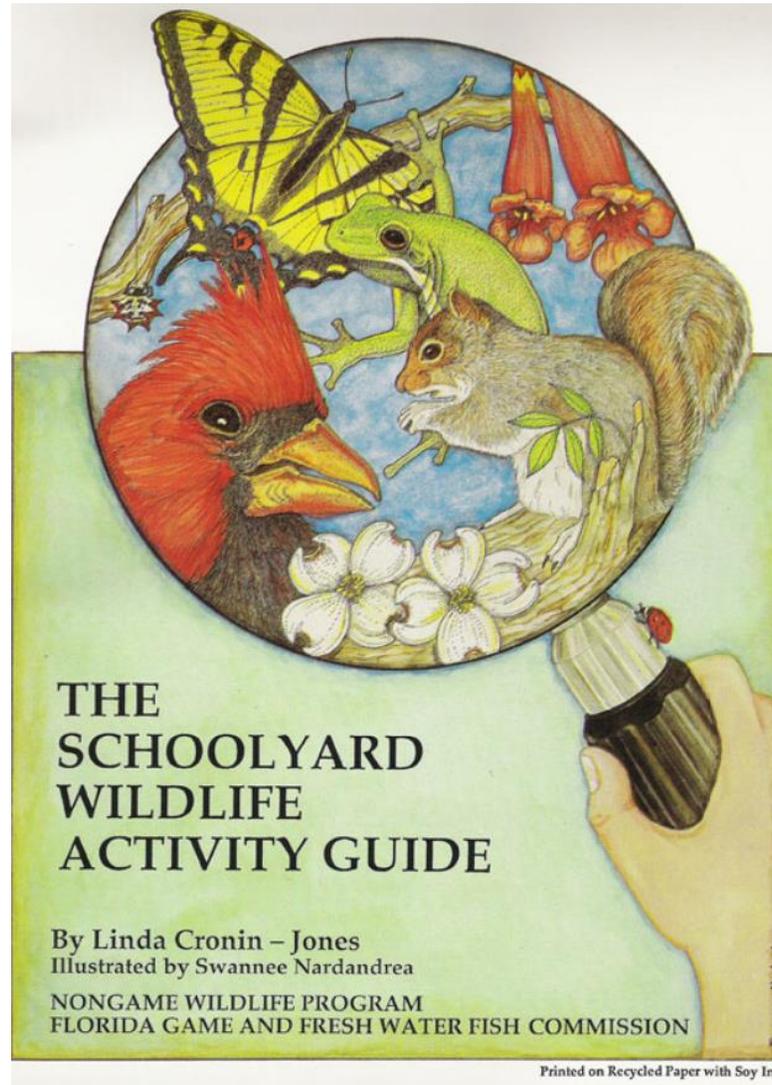


Table of Contents

How to Use the NGSSS for The Schoolyard Wildlife Activity Guide.....	3
Acknowledgements.....	7
Lesson 1	
It’s a “Sense”ation.....	8
Lesson 2	
Spying on Squirrels.....	10
Lesson 3	
Scene of the Crime.....	13
Lesson 4	
There’s No Place Like Home.....	16
Lesson 5	
Microhabitat Scavenger Hunt.....	20
Lesson 5	
Some Like It Hot!.....	23
Lesson 7	
Ant Views.....	26
Lesson 8	
Antwiches.....	28
Lesson 9	
Pine Trees as History Books.....	31
Lesson 10	
What’s It Gall About?.....	34
Lesson 11	
Weevils and Acorns.....	37
Lesson 12	
My Leaf’s Tougher Than Yours!.....	40
Lesson 13	
Mosses Are Picky Devils!.....	44
Lesson 14	
Unusual Animal Tracks.....	47

Table of Contents (continued)

Lesson 15	
Keep Your Distance	50
Lesson 16	
Have Seed, Will Travel.....	53
Lesson 17	
Hitching a Ride	58
Lesson 18	
Animal Seed-Movers	61
Lesson 19	
Web Weavers	65
Lesson 20	
How Does a Spider Spell Success?.....	68
Lesson 21	
The Pit and the Ant Lion.....	71
Lesson 22	
Dare to Be Different!	75
Lesson 23	
Caterpillar Defenses.....	79
Lesson 24	
If You Have It, Should You Flaunt It?	83
Lesson 25	
How to Keep a Grasshopper from Munching.....	86
Lesson 26	
The Leaf-Miner League	89
Lesson 27	
Lichens, We Love ‘em!.....	93
Lesson 28	
Will You “Bee” My Favorite Flower?.....	96
Lesson 29	
All in the Daisy Family.....	100

Table of Contents (continued)

Lesson 30
Mushroom Rally103

Lesson 31
A Real Scavenger Hunt.....107

Lesson 32
Look Out for the Mob112

Lesson 33
Palm Boots, Hot and Cold115

Lesson 34
Litterbugs119

Lesson 35
Pitfalls in Ecology.....123

How to Use the NGSSS for The Schoolyard Wildlife Activity Guide

The *Schoolyard Wildlife Activity Guide* has been correlated to the Florida Next Generation Sunshine State Standards for Science (NGSSS for Science) for your ease of demonstrating/documenting how the lessons address state education standards. Each lesson’s correlations are organized using the same format and include the following:

Benchmark Code:

Each benchmark has its own unique code. Each code is broken down into Subject, Grade, Body of Knowledge, Big Idea/Supporting Idea (Standard), Benchmark. For example, SC.3.N.1.3 relates to:

Subject	Grade	Body of Knowledge	Big Idea/Supporting Idea	Benchmark
SC	3	N	1	3
Science	3	Nature of Science	The Practice of Science	Keep records as appropriate, such as pictorial, written, or simple charts and graphs, of investigations conducted.

Description of the Benchmark:

The description of the benchmark details what knowledge and skills are being addressed with this lesson.

Subject:

All NGSSS standards currently correlated are for Science. However, other subject areas such as Mathematics, Language Arts, Social Studies, etc. also apply.

Big Idea/Supporting Idea (Standard):

The NGSSS for Science are arranged within eighteen “Big Ideas/Supporting Ideas” that foster student learning progressions from Kindergarten through grade12, providing a framework for the development of essential concepts in science for each grade level. The chart below reflects the relationship between Body of Knowledge and Big Ideas/Supporting Ideas:

Body of Knowledge	Big Ideas/Supporting Ideas
The Nature of Science	Practice of Science; Characteristics of Scientific Knowledge; The Role of Theories, Laws, Hypotheses, and Models; Science and Society
Earth and Space Science	Earth in Space and Time, Earth Structures, Earth Systems and Patterns
Physical Science	Properties of Matter, Changes in Matter, Forms of Energy, Matter and Energy Transfers and Transformations, Motion of Objects, Forces and Changes in Motion
Life Science	Organization and Development of Living Organisms, Diversity and Evolution of Living Organisms; Heredity and Reproduction; Interdependence

Body of Knowledge:

The NGSSS for Science are grouped into four main Bodies of Knowledge – The Nature of Science, Earth and Space Science, Life Science, and Physical Science. The Nature of Science Body of Knowledge benchmarks are embedded within each science course description at all grade levels. Instructional materials should reflect this approach and should integrate the Nature of Science benchmarks throughout the entire curriculum and not isolate the benchmarks into a separate unit.

Grade:

Indicates the grade to which the Benchmark applies. *The Schoolyard Wildlife Activity Guide* was originally designed for grades 2 – 5. Since its introduction in 1992, trained facilitators and educators discovered how easily the lessons can be adapted to the lower primary grades (kindergarten – 1), as well as for middle school. The Florida Fish and Wildlife Conservation Commission encourages educators to adapt lessons for their unique audiences.

Level of Complexity:

Each Benchmark’s depth of knowledge is rated by the cognitive demand it and corresponding assessments place on learners. Science knowledge can refer to content knowledge, knowledge of science processes, and the nature of science. Levels of complexity are as follows:

Level	Defined for Science
Level 1: Recall	Recall of information such as fact, definition, term, as well as performing simple science process or procedure. Demonstrates wrote response, uses a well-known formula, follows a well-defined procedure, or performs a clearly defined set of steps.
Level 2: Basic application of concepts or skills	Requires decision making as to how to approach a question or problem. Includes making observations and collecting data; classifying, organizing, and comparing data; representing and displaying data in tables, graphs, and charts.
Level 3: Strategic thinking and complex reasoning	Requires reasoning, planning, using evidence, and a higher level of thinking than the previous two levels. <u>The cognitive demands at this level are complex and abstract, demand reasoning, and explanations for thinking.</u>
Level 4: Extended thinking and complex reasoning	The same high cognitive demands as Level 3 with the additional requirement of work over an extended period of time or with extended effort. Requires making multiple connections—relating ideas within the content area or among content areas—and have to select or devise one approach among many alternatives for how the situation or problem can be solved.

C-Palms Link:

To directly access the Benchmarks on C-Palms, press the “Control” key and left click the mouse or touch pad navigation key. There are substantial resources to support each *The Schoolyard Wildlife Activity Guide* lesson on C-Palms. Included are items such as, but are not limited to:

- **Access Points** – Expectations written for students with significant cognitive disabilities to access the general education curriculum, which reflect the core intent of the Standards with reduced levels of complexity. Each Benchmark is broken down into Independent, Supported, and Participatory elements.

- **Related Resources** – Numerous resources to facilitate teaching and learning are available for every Benchmark. Below are a few examples:
 - **Teaching Ideas and Lesson Plans** – Many of these facilitate extension of *The Schoolyard Wildlife Activity Guide* lessons. For example, SC.K.N.1.2 in Lesson 1, “It’s a “Sense” action” provides a lesson plan entitled “Kindergarten 5 Senses with Pumpkins” that extends Lesson 1.
 - **Professional Developments** – For those educators who want more information about teaching specific content, websites and other resources are offered. For example, SC.K.N.1.2 in Lesson 13, “Mosses Are Picky Devils!” offers an **Environmental Education for Kids** resource that helps teachers incorporate environmental education into their curriculum.
 - **Video/Audio Animations, Images/Photographs, Educational Games, Presentations/Slide Shows, Worksheets, Center Ideas**, and other teaching tools – Numerous benchmarks provide tools to support or expand *The Schoolyard Wildlife Activity Guide* lessons. For example: SC.5.L.17.1 provides a video entitled “Masters of Disguise” that supports Lesson 23 & 24, and a slideshow called “Animal Adaptations” that supports Lessons 2, 10, 11, 19, 20, 21,22, 23, 24, 25, 26, and 32.
- **STEM Lessons** – Many Benchmarks offer STEM lessons, most of which require C-Palms membership to access. The majority of the lessons are model-eliciting activities (MEAs), which encourage students to invent and test models.
- **Student Resources** – Mini-lessons intended for student use. For example, SC.4.L.16.1 in Lesson 18, “Animal Seed Movers” offers “A Plant’s Life” audio/visual lesson, as well as four other activities that support this Lesson 18, as well as several other *The Schoolyard Wildlife Activity Guide* lessons.
- **Parent Resources** – Numerous resources for parents and homeschool educators are available. For example, SC.5.L.17.1 in Lesson 22, “Dare to Be Different” provides a multi-lesson unit called “Pond Life” that includes extensions and assessments.

Acknowledgements

The NGSSS for Science correlations for *The Schoolyard Wildlife Activity Guide* was made possible by an agreement between the Florida Fish and Wildlife Conservation Commission’s Public Access Services Office and Gugliotti Environmental Conservation Education Services – Nature Teach.

It's a "Sense"ation

Lesson 1

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.K.N.1.2	Make observations of the natural world and know that they are descriptors collected using the five senses.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.K.N.1.5	Recognize that learning can come from careful observation.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.1.N.1.2	Using the five senses as tools, make careful observations, describe objects in terms of number, shape, texture, size, weight, color, and motion, and compare their observations with others.	Science	The Practice of Science	Nature of Science	1	2	Control Click for link
SC.2.N.1.1	Raise questions about the natural world, investigate them in teams through free exploration and systematic observations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	2	3	Control Click for link
SC.2.N.1.2	Compare the observations made by different groups using the same tools.	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.2.N.1.5	Distinguish between empirical observation (what you see, hear, feel, smell, or taste) and ideas or inferences (what you think).	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.3.N.1.2	Compare the observations made by different groups using the same tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link

It's a "Sense"ation

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.3.N.1.3	Keep records as appropriate, such as pictorial, written, or simple charts and graphs, of investigations conducted.	Science	The Practice of Science	Nature of Science	3	2	Control Click for link
SC.3.N.1.6	Infer based on observation.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.4.N.1.2	Compare the observations made by different groups using multiple tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.4.N.1.6	Keep records that describe observations made, carefully distinguishing actual observations from ideas and inferences about the observations.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.5.N.1.6	Recognize and explain the difference between personal opinion/interpretation and verified observation.	Science	The Practice of Science	Nature of Science	5	2	Control Click for Link
SC.1.L.14.1	Make observations of living things and their environment using the five senses.	Science	Organization and Development of Living Organisms	Life Science	1	1	Control Click for link
SC.1.L.17.1	Through observation, recognize that all plants and animals, including humans, need the basic necessities of air, water, food, and space.	Science	Interdependence	Life Science	1	1	Control Click for link
SC.2.L 17.2	Recognize and explain that living things are found all over Earth, but each is only able to live in habitats that meet its basic needs.	Science	Interdependence	Life Science	2	2	Control Click for link

It's a "Sense" ation

Spying on Squirrels

Lesson 2

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.K.N.1.2	Make observations of the natural world and know that they are descriptors collected using the five senses.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.K.N.1.5	Recognize that learning can come from careful observation.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.1.N.1.2	Using the five senses as tools, make careful observations, describe objects in terms of number, shape, texture, size, weight, color, and motion, and compare their observations with others.	Science	The Practice of Science	Nature of Science	1	2	Control Click for link
SC.2.N.1.1	Raise questions about the natural world, investigate them in teams through free exploration and systematic observations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	2	3	Control Click for link
SC.2.N.1.2	Compare the observations made by different groups using the same tools.	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.2.N.1.5	Distinguish between empirical observation (what you see, hear, feel, smell, or taste) and ideas or inferences (what you think).	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.3.N.1.2	Compare the observations made by different groups using the same tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link

Spying on Squirrels

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.3.N.1.3	Keep records as appropriate, such as pictorial, written, or simple charts and graphs, of investigations conducted.	Science	The Practice of Science	Nature of Science	3	2	Control Click for link
SC.3.N.1.6	Infer based on observation.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.4.N.1.2	Compare the observations made by different groups using multiple tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.4.N.1.6	Keep records that describe observations made, carefully distinguishing actual observations from ideas and inferences about the observations.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.5.N.1.6	Recognize and explain the difference between personal opinion/interpretation and verified observation.	Science	The Practice of Science	Nature of Science	5	2	Control Click for Link
SC.1.L.14.1	Make observations of living things and their environment using the five senses.1	Science	Organization and Development of Living Organisms	Life Science	1	1	Control Click for link
SC.1.L.17.1	Through observation, recognize that all plants and animals, including humans, need the basic necessities of air, water, food, and space.	Science	Interdependence	Life Science	1	1	Control Click for link
SC.2.L 17.2	Recognize and explain that living things are found all over Earth, but each is only able to live in habitats that meet its basic needs.	Science	Interdependence	Life Science	2	2	Control Click for link

Spying on Squirrels

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.3.L.17.1	Describe how animals and plants respond to changing seasons.	Science	Interdependence	Life Science	3	2	Control Click for link
SC.4.L.16.2	Explain that although characteristics of plants and animals are inherited, some characteristics can be affected by the environment.	Science	Heredity and Reproduction	Life Science	4	3	Control Click for link
SC.4.L.16.3	Recognize that animal behaviors may be shaped by heredity and learning.	Science	Heredity and Reproduction	Life Science	4	3	Control Click for link
SC.5.L.17.1	Compare and contrast adaptations displayed by animals and plants that enable them to survive in different environments such as life cycles variations, animal behaviors and physical characteristics.	Science	Interdependence	Life Science	2	5	Control Click for link

Spying on Squirrels

Scene of the Crime

Lesson 3

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.K.N.1.2	Make observations of the natural world and know that they are descriptors collected using the five senses.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.K.N.1.5	Recognize that learning can come from careful observation.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.1.N.1.2	Using the five senses as tools, make careful observations, describe objects in terms of number, shape, texture, size, weight, color, and motion, and compare their observations with others.	Science	The Practice of Science	Nature of Science	1	2	Control Click for link
SC.2.N.1.1	Raise questions about the natural world, investigate them in teams through free exploration and systematic observations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	2	3	Control Click for link
SC.2.N.1.2	Compare the observations made by different groups using the same tools.	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.2.N.1.5	Distinguish between empirical observation (what you see, hear, feel, smell, or taste) and ideas or inferences (what you think).	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.3.N.1.2	Compare the observations made by different groups using the same tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link

Scene of the Crime

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.3.N.1.3	Keep records as appropriate, such as pictorial, written, or simple charts and graphs, of investigations conducted.	Science	The Practice of Science	Nature of Science	3	2	Control Click to link
SC.3.N.1.6	Infer based on observation.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.3.N.1.7	Explain that empirical evidence is information, such as observations or measurements, that is used to help validate explanations of natural phenomena.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.4.N.1.2	Compare the observations made by different groups using multiple tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.4.N.1.6	Keep records that describe observations made, carefully distinguishing actual observations from ideas and inferences about the observations.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.5.N.1.1	Define a problem, use appropriate reference materials to support scientific understanding, plan and carry out scientific investigations of various types such as: systematic observations, experiments requiring the identification of variables, collecting and organizing data, interpreting data in charts, tables, and graphics, analyze information, make predictions, and defend conclusions.	Science	The Practice of Science	Nature of Science	5	3	Control Click for link
SC.5.N.1.6	Recognize and explain the difference between personal opinion/interpretation and verified observation.	Science	The Practice of Science	Nature of Science	5	2	Control Click for Link

Scene of the Crime

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.6.N.1.1	Define a problem from the sixth grade curriculum, use appropriate reference materials to support scientific understanding, plan and carry out scientific investigation of various types, such as systematic observations or experiments, identify variables, collect and organize data, interpret data in charts, tables, and graphics, analyze information, make predictions, and defend conclusions.	Science	The Practice of Science	The Nature of Science	6	3	Control Click for link
SC.1.L.14.1	Make observations of living things and their environment using the five senses.	Science	Organization and Development of Living Organisms	Life Science	1	1	Control Click for link
SC.1.L.17.1	Through observation, recognize that all plants and animals, including humans, need the basic necessities of air, water, food, and space.	Science	Interdependence	Life Science	1	1	Control Click for link
SC.2.L.17.2	Recognize and explain that living things are found all over Earth, but each is only able to live in habitats that meet its basic needs.	Science	Interdependence	Life Science	2	2	Control Click for link

Scene of the Crime

There's No Place Like Home

Lesson 4

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.K.N.1.2	Make observations of the natural world and know that they are descriptors collected using the five senses.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.K.N.1.5	Recognize that learning can come from careful observation.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.1.N.1.1	Raise questions about the natural world, investigate them in teams through free exploration, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	1	3	Control Click for link
SC.1.N.1.2	Using the five senses as tools, make careful observations, describe objects in terms of number, shape, texture, size, weight, color, and motion, and compare their observations with others.	Science	The Practice of Science	Nature of Science	1	2	Control Click for link
SC.2.N.1.1	Raise questions about the natural world, investigate them in teams through free exploration and systematic observations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	2	3	Control Click for link
SC.2.N.1.2	Compare the observations made by different groups using the same tools.	Science	The Practice of Science	Nature of Science	2	2	Control Click for link

There's No Place Like Home

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.2.N.1.5	Distinguish between empirical observation (what you see, hear, feel, smell, or taste) and ideas or inferences (what you think).	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.3.N.1.1	Raise questions about the natural world, investigate them individually and in teams through free exploration and systematic investigations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.3.N.1.3	Keep records as appropriate, such as pictorial, written, or simple charts and graphs, of investigations conducted.	Science	The Practice of Science	Nature of Science	3	2	Control Click to link
SC.3.N.1.6	Infer based on observation.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.3.N.1.7	Explain that empirical evidence is information, such as observations or measurements, that is used to help validate explanations of natural phenomena.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.4.N.1.1.	Raise questions about the natural world, use appropriate reference materials that support understanding to obtain information (identifying the source), conduct both individual and team investigations through free exploration and systematic investigations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link

There's No Place Like Home

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.4.N.1.2	Compare the observations made by different groups using multiple tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.4.N.1.6	Keep records that describe observations made, carefully distinguishing actual observations from ideas and inferences about the observations.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.1.L.14.1	Make observations of living things and their environment using the five senses.	Science	Organization and Development of Living Organisms	Life Science	1	1	Control Click for link
SC.1.L.17.1	Through observation, recognize that all plants and animals, including humans, need the basic necessities of air, water, food, and space.	Science	Interdependence	Life Science	1	1	Control Click for link
SC.2.L.17.2	Recognize and explain that living things are found all over Earth, but each is only able to live in habitats that meet its basic needs.	Science	Interdependence	Life Science	2	2	Control Click for link
SC.4.L.16.2	Explain that although characteristics of plants and animals are inherited, some characteristics can be affected by the environment.	Science	Heredity and Reproduction	Life Science	4	3	Control Click for link
SC.4.L.17.4	Recognize ways plants and animals, including humans, can impact the environment.	Science	Interdependence	Life Science	4	3	Control Click for link

There's No Place Like Home

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.5.L.15.1	Describe how, when the environment changes, differences between individuals allow some plants and animals to survive and reproduce while others die or move to new locations.	Science	Diversity and Evolution of Living Organisms	Life Science	5	3	Control Click for link
SC.5.E.7.5	Recognize that some of the weather-related differences, such as temperature and humidity, are found among different environments, such as swamps, deserts, and mountains.	Science	Earth Systems and Patters	Earth and Space Science	5	2	Control Click for link

There's No Place Like Home

Microhabitat Scavenger Hunt

Lesson 5

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.K.N.1.2	Make observations of the natural world and know that they are descriptors collected using the five senses.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.K.N.1.5	Recognize that learning can come from careful observation.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.1.N.1.2	Using the five senses as tools, make careful observations, describe objects in terms of number, shape, texture, size, weight, color, and motion, and compare their observations with others.	Science	The Practice of Science	Nature of Science	1	2	Control Click for link
SC.2.N.1.1	Raise questions about the natural world, investigate them in teams through free exploration and systematic observations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	2	3	Control Click for link
SC.2.N.1.2	Compare the observations made by different groups using the same tools.	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.2.N.1.5	Distinguish between empirical observation (what you see, hear, feel, smell, or taste) and ideas or inferences (what you think).	Science	The Practice of Science	Nature of Science	2	2	Control Click for link

Microhabitat Scavenger Hunt

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.3.N.1.3	Keep records as appropriate, such as pictorial, written, or simple charts and graphs, of investigations conducted.	Science	The Practice of Science	Nature of Science	3	2	Control Click for link
SC.3.N.1.6	Infer based on observation.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.4.N.1.2	Compare the observations made by different groups using multiple tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.4.N.1.6	Keep records that describe observations made, carefully distinguishing actual observations from ideas and inferences about the observations.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.1.L.14.1	Make observations of living things and their environment using the five senses.	Science	Organization and Development of Living Organisms	Life Science	1	1	Control Click for link
SC.1.L.17.1	Through observation, recognize that all plants and animals, including humans, need the basic necessities of air, water, food, and space.	Science	Interdependence	Life Science	1	1	Control Click for link
SC.2.L.17.2	Recognize and explain that living things are found all over Earth, but each is only able to live in habitats that meet its basic needs.	Science	Interdependence	Life Science	2	2	Control Click for link
SC.4.L.16.2	Explain that although characteristics of plants and animals are inherited, some characteristics can be affected by the environment.	Science	Heredity and Reproduction	Life Science	4	3	Control Click for link

Microhabitat Scavenger Hunt

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.4.L.17.4	Recognize ways plants and animals, including humans, can impact the environment.	Science	Interdependence	Life Science	4	3	Control Click for link
SC.5.L.15.1	Describe how, when the environment changes, differences between individuals allow some plants and animals to survive and reproduce while others die or move to new locations.	Science	Diversity and Evolution of Living Organisms	Life Science	5	3	Control Click for link
SC.5.E.7.5	Recognize that some of the weather-related differences, such as temperature and humidity, are found among different environments, such as swamps, deserts, and mountains.	Science	Earth Systems and Patters	Earth and Space Science	5	2	Control Click for link

Microhabitat Scavenger Hunt

Some Like It Hot!

Lesson 6

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.K.N.1.2	Make observations of the natural world and know that they are descriptors collected using the five senses.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.K.N.1.5	Recognize that learning can come from careful observation.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.1.N.1.2	Using the five senses as tools, make careful observations, describe objects in terms of number, shape, texture, size, weight, color, and motion, and compare their observations with others.	Science	The Practice of Science	Nature of Science	1	2	Control Click for link
SC.2.N.1.1	Raise questions about the natural world, investigate them in teams through free exploration and systematic observations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	2	3	Control Click for link
SC.2.N.1.2	Compare the observations made by different groups using the same tools.	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.2.N.1.5	Distinguish between empirical observation (what you see, hear, feel, smell, or taste) and ideas or inferences (what you think).	Science	The Practice of Science	Nature of Science	2	2	Control Click for link

Some Like It Hot!

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.3.N.1.2	Compare the observations made by different groups using the same tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.3.N.1.3	Keep records as appropriate, such as pictorial, written, or simple charts and graphs, of investigations conducted.	Science	The Practice of Science	Nature of Science	3	2	Control Click for link
SC.3.N.1.6	Infer based on observation.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.4.N.1.2	Compare the observations made by different groups using multiple tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.4.N.1.6	Keep records that describe observations made, carefully distinguishing actual observations from ideas and inferences about the observations.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.5.N.1.6	Recognize and explain the difference between personal opinion/interpretation and verified observation.	Science	The Practice of Science	Nature of Science	5	2	Control Click for Link
SC.1.L.14.1	Make observations of living things and their environment using the five senses.	Science	Organization and Development of Living Organisms	Life Science	1	1	Control Click for link

Some Like It Hot!

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.1.L.17.1	Through observation, recognize that all plants and animals, including humans, need the basic necessities of air, water, food, and space.	Science	Interdependence	Life Science	1	1	Control Click for link
SC.2.L.17.2	Recognize and explain that living things are found all over Earth, but each is only able to live in habitats that meet its basic needs.	Science	Interdependence	Life Science	2	2	Control Click for link
SC.3.L.17.1	Describe how animals and plants respond to changing seasons.	Science	Interdependence	Life Science	3	2	Control Click for link
SC.4.L.17.4	Recognize ways plants and animals, including humans, can impact the environment.	Science	Interdependence	Life Science	4	3	Control Click for link
SC.5.L.15.1	Describe how, when the environment changes, differences between individuals allow some plants and animals to survive and reproduce while others die or move to new locations.	Science	Diversity and Evolution of Living Organisms	Life Science	5	3	Control Click for link
SC.5.L.17.1	Compare and contrast adaptations displayed by animals and plants that enable them to survive in different environments such as life cycles variations, animal behaviors and physical characteristics.	Science	Interdependence	Life Science	5	2	Control Click for link
SC.5.E.7.5	Recognize that some of the weather-related differences, such as temperature and humidity, are found among different environments, such as swamps, deserts, and mountains.	Science	Earth Systems and Patterns	Earth and Space Science	5	2	Control Click for link

Some Like It Hot!

Ant Views

Lesson 7

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.K.N.1.2	Make observations of the natural world and know that they are descriptors collected using the five senses.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.K.N.1.5	Recognize that learning can come from careful observation.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.1.N.1.2	Using the five senses as tools, make careful observations, describe objects in terms of number, shape, texture, size, weight, color, and motion, and compare their observations with others.	Science	The Practice of Science	Nature of Science	1	2	Control Click for link
SC.2.N.1.1	Raise questions about the natural world, investigate them in teams through free exploration and systematic observations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	2	3	Control Click for link
SC.2.N.1.2	Compare the observations made by different groups using the same tools.	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.2.N.1.5	Distinguish between empirical observation (what you see, hear, feel, smell, or taste) and ideas or inferences (what you think).	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.3.N.1.2	Compare the observations made by different groups using the same tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link

Ant Views

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.3.N.1.3	Keep records as appropriate, such as pictorial, written, or simple charts and graphs, of investigations conducted.	Science	The Practice of Science	Nature of Science	3	2	Control Click for link
SC.3.N.1.6	Infer based on observation.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.4.N.1.2	Compare the observations made by different groups using multiple tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.4.N.1.6	Keep records that describe observations made, carefully distinguishing actual observations from ideas and inferences about the observations.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.1.L.14.1	Make observations of living things and their environment using the five senses.	Science	Organization and Development of Living Organisms	Life Science	1	1	Control Click for link
SC.1.L.17.1	Through observation, recognize that all plants and animals, including humans, need the basic necessities of air, water, food, and space.	Science	Interdependence	Life Science	1	1	Control Click for link

Ant Views

Antwiches

Lesson 8

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.K.N.1.2	Make observations of the natural world and know that they are descriptors collected using the five senses.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.K.N.1.5	Recognize that learning can come from careful observation.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.1.N.1.2	Using the five senses as tools, make careful observations, describe objects in terms of number, shape, texture, size, weight, color, and motion, and compare their observations with others.	Science	The Practice of Science	Nature of Science	1	2	Control Click for link
SC.2.N.1.1	Raise questions about the natural world, investigate them in teams through free exploration and systematic observations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	2	3	Control Click for link
SC.2.N.1.2	Compare the observations made by different groups using the same tools.	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.2.N.1.5	Distinguish between empirical observation (what you see, hear, feel, smell, or taste) and ideas or inferences (what you think).	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.3.N.1.2	Compare the observations made by different groups using the same tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link

Antwiches

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.3.N.1.3	Keep records as appropriate, such as pictorial, written, or simple charts and graphs, of investigations conducted.	Science	The Practice of Science	Nature of Science	3	2	Control Click for link
SC.3.N.1.6	Infer based on observation.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.4.N.1.2	Compare the observations made by different groups using multiple tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.4.N.1.6	Keep records that describe observations made, carefully distinguishing actual observations from ideas and inferences about the observations.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.5.N.1.1	Define a problem, use appropriate reference materials to support scientific understanding, plan and carry out scientific investigations of various types such as: systematic observations, experiments requiring the identification of variables, collecting and organizing data, interpreting data in charts, tables, and graphics, analyze information, make predictions, and defend conclusions.	Science	The Practice of Science	Nature of Science	5	3	Control Click for link
SC.5.N.1.6	Recognize and explain the difference between personal opinion/interpretation and verified observation.	Science	The Practice of Science	Nature of Science	5	2	Control Click for Link

Antwiches

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.6.N.1.1	Define a problem from the sixth grade curriculum, use appropriate reference materials to support scientific understanding, plan and carry out scientific investigation of various types, such as systematic observations or experiments, identify variables, collect and organize data, interpret data in charts, tables, and graphics, analyze information, make predictions, and defend conclusions.	Science	The Practice of Science	Nature of Science	6	3	Control Click for link
SC.1.L.14.1	Make observations of living things and their environment using the five senses.	Science	Organization and Development of Living Organisms	Life Science	1	1	Control Click for link
SC.1.L.17.1	Through observation, recognize that all plants and animals, including humans, need the basic necessities of air, water, food, and space.	Science	Interdependence	Life Science	1	1	Control Click for link
SC.3.L.15.1	Classify animals into major groups (mammals, birds, reptiles, amphibians, fish, arthropods, vertebrates and invertebrates, those having live births and those which lay eggs) according to their physical characteristics and behaviors.	Science	Diversity and Evolution of Living Organisms	Life Science	3	2	Control Click for link
SC.4.L.16.3	Recognize that animal behaviors may be shaped by heredity and learning.	Science	Heredity and Reproduction	Life Science	3	3	Control Click for link
SC.4.L.17.4	Recognize ways plants and animals, including humans, can impact the environment.	Science	Interdependence	Life Science	4	3	Control Click for link

Antwiches

Pine Trees as History Books

Lesson 9

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.K.N.1.2	Make observations of the natural world and know that they are descriptors collected using the five senses.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.K.N.1.5	Recognize that learning can come from careful observation.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.1.N.1.2	Using the five senses as tools, make careful observations, describe objects in terms of number, shape, texture, size, weight, color, and motion, and compare their observations with others.	Science	The Practice of Science	Nature of Science	1	2	Control Click for link
SC.2.N.1.1	Raise questions about the natural world, investigate them in teams through free exploration and systematic observations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	2	3	Control Click for link
SC.2.N.1.2	Compare the observations made by different groups using the same tools.	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.2.N.1.5	Distinguish between empirical observation (what you see, hear, feel, smell, or taste) and ideas or inferences (what you think).	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.3.N.1.2	Compare the observations made by different groups using the same tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link

Pine Trees as History Books

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.3.N.1.3	Keep records as appropriate, such as pictorial, written, or simple charts and graphs, of investigations conducted.	Science	The Practice of Science	Nature of Science	3	2	Control Click for link
SC.3.N.1.6	Infer based on observation.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.3.N.1.7	Explain that empirical evidence is information, such as observations or measurements, that is used to help validate explanations of natural phenomena.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.4.N.1.2	Compare the observations made by different groups using multiple tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.4.N.1.6	Keep records that describe observations made, carefully distinguishing actual observations from ideas and inferences about the observations.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.5.N.1.6	Recognize and explain the difference between personal opinion/interpretation and verified observation.	Science	The Practice of Science	Nature of Science	5	2	Control Click for Link
SC.1.L.14.1	Make observations of living things and their environment using the five senses.	Science	Organization and Development of Living Organisms	Life Science	1	1	Control Click for link
SC.1.L.14.2	Identify the major parts of plants, including stem, roots, leaves, and flowers.	Science	Organization and Development of Living Organisms	Life Science	1	1	Control Click for link

Pine Trees as History Books

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.2.L.17.2	Recognize and explain that living things are found all over Earth, but each is only able to live in habitats that meet its basic needs.	Science	Interdependence	Life Science	2	2	Control Click for link
SC.4.L.17.4	Recognize ways plants and animals, including humans, can impact the environment.	Science	Interdependence	Life Science	4	3	Control Click for link
SC.6.L.15.1	Analyze and describe how and why organisms are classified according to shared characteristics with emphasis on the Linnaean system combined with the concept of Domains.	Science	Diversity and Evolution of Living Organisms	Life Science	6	3	Control Click for link

Pine Trees as History Books

What's It Gall About

Lesson 10

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.K.N.1.2	Make observations of the natural world and know that they are descriptors collected using the five senses.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.K.N.1.5	Recognize that learning can come from careful observation.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.1.N.1.2	Using the five senses as tools, make careful observations, describe objects in terms of number, shape, texture, size, weight, color, and motion, and compare their observations with others.	Science	The Practice of Science	Nature of Science	1	2	Control Click for link
SC.2.N.1.1	Raise questions about the natural world, investigate them in teams through free exploration and systematic observations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	2	3	Control Click for link
SC.2.N.1.2	Compare the observations made by different groups using the same tools.	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.2.N.1.5	Distinguish between empirical observation (what you see, hear, feel, smell, or taste) and ideas or inferences (what you think).	Science	The Practice of Science	Nature of Science	2	2	Control Click for link

What's It Gall About?

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.3.N.1.2	Compare the observations made by different groups using the same tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.3.N.1.3	Keep records as appropriate, such as pictorial, written, or simple charts and graphs, of investigations conducted.	Science	The Practice of Science	Nature of Science	3	2	Control Click for link
SC.3.N.1.5	Recognize that scientists question, discuss, and check each other's evidence and explanations.	Science	The Practice of Science	Nature of Science	3	2	Control Click for link
SC.3.N.1.6	Infer based on observation.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.4.N.1.2	Compare the observations made by different groups using multiple tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.4.N.1.4	Attempt reasonable answers to scientific questions and cite evidence in support.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.4.N.1.6	Keep records that describe observations made, carefully distinguishing actual observations from ideas and inferences about the observations.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link

What's It Gall About?

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.5.N.1.6	Recognize and explain the difference between personal opinion/interpretation and verified observation.	Science	The Practice of Science	Nature of Science	5	2	Control Click for Link
SC.1.L.14.1	Make observations of living things and their environment using the five senses.	Science	Organization and Development of Living Organisms	Life Science	1	1	Control Click for link
SC.1.L.17.1	Through observation, recognize that all plants and animals, including humans, need the basic necessities of air, water, food, and space.	Science	Interdependence	Life Science	1	1	Control Click for link
SC.2.L.17.2	Recognize and explain that living things are found all over Earth, but each is only able to live in habitats that meet its basic needs.	Science	Interdependence	Life Science	2	2	Control Click for link
SC.5.L.17.1	Compare and contrast adaptations displayed by animals and plants that enable them to survive in different environments such as life cycles variations, animal behaviors and physical characteristics.	Science	Interdependence	Life Science	5	2	Control Click for link

What's It Gall About?

Weevils and Acorns

Lesson 11

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.K.N.1.2	Make observations of the natural world and know that they are descriptors collected using the five senses.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.K.N.1.5	Recognize that learning can come from careful observation.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.1.N.1.2	Using the five senses as tools, make careful observations, describe objects in terms of number, shape, texture, size, weight, color, and motion, and compare their observations with others.	Science	The Practice of Science	Nature of Science	1	2	Control Click for link
SC.2.N.1.1	Raise questions about the natural world, investigate them in teams through free exploration and systematic observations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	2	3	Control Click for link
SC.2.N.1.2	Compare the observations made by different groups using the same tools.	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.2.N.1.5	Distinguish between empirical observation (what you see, hear, feel, smell, or taste) and ideas or inferences (what you think).	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.3.N.1.2	Compare the observations made by different groups using the same tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link

Weevils and Acorns

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.3.N.1.3	Keep records as appropriate, such as pictorial, written, or simple charts and graphs, of investigations conducted.	Science	The Practice of Science	Nature of Science	3	2	Control Click for link
SC.3.N.1.5	Recognize that scientists question, discuss, and check each other's evidence and explanations.	Science	The Practice of Science	Nature of Science	3	2	Control Click for link
SC.3.N.1.6	Infer based on observation.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.4.N.1.2	Compare the observations made by different groups using multiple tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.4.N.1.6	Keep records that describe observations made, carefully distinguishing actual observations from ideas and inferences about the observations.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.5.N.1.6	Recognize and explain the difference between personal opinion/interpretation and verified observation.	Science	The Practice of Science	Nature of Science	5	2	Control Click for link
SC.6.N.1.4	Discuss, compare, and negotiate methods used, results obtained, and explanations among groups of students conducting the same investigation.	Science	The Practice of Science	Nature of Science	6	3	Control Click for link
SC.1.L.14.1	Make observations of living things and their environment using the five senses.	Science	Organization and Development of Living Organisms	Life Science	1	1	Control Click for link

Weevils and Acorns

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.1.L.17.1	Through observation, recognize that all plants and animals, including humans, need the basic necessities of air, water, food, and space.	Science	Interdependence	Life Science	1	1	Control Click for link
SC.2.L.16.1	Observe and describe major stages in the life cycles of plants and animals, including beans and butterflies.	Science	Heredity and Reproduction	Life Science	2	2	Control Click for link
SC.4.L.16.1	Identify processes of sexual reproduction in flowering plants, including pollination, fertilization (seed production), seed dispersal, and germination.	Science	Heredity and Reproduction	Life Science	4	2	Control Click for link
SC.4.L.16.4	Compare and contrast the major stages in the life cycles of Florida plants and animals, such as those that undergo incomplete and complete metamorphosis, and flowering and nonflowering seed-bearing plants.	Science	Heredity and Reproduction	Life Science	4	2	Control Click for link
SC.5.L.17.1	Compare and contrast adaptations displayed by animals and plants that enable them to survive in different environments such as life cycles variations, animal behaviors and physical characteristics.	Science	Interdependence	Life Cycles	5	2	Control Click for link

Weevils and Acorns

My Leaf is Tougher Than Yours!

Lesson 12

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.K.N.1.2	Make observations of the natural world and know that they are descriptors collected using the five senses.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.K.N.1.5	Recognize that learning can come from careful observation.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.1.N.1.2	Using the five senses as tools, make careful observations, describe objects in terms of number, shape, texture, size, weight, color, and motion, and compare their observations with others.	Science	The Practice of Science	Nature of Science	1	2	Control Click for link
SC.2.N.1.1	Raise questions about the natural world, investigate them in teams through free exploration and systematic observations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	2	3	Control Click for link
SC.2.N.1.2	Compare the observations made by different groups using the same tools.	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.2.N.1.4	Explain how particular scientific investigations should yield similar conclusions when repeated.	Science	The Practice of Science	Nature of Science	2	3	Control Click for link
SC.2.N.1.5	Distinguish between empirical observation (what you see, hear, feel, smell, or taste) and ideas or inferences (what you think).	Science	The Practice of Science	Nature of Science	2	2	Control Click for link

My Leaf's Tougher Than Yours!

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.3.N.1.2	Compare the observations made by different groups using the same tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.3.N.1.3	Keep records as appropriate, such as pictorial, written, or simple charts and graphs, of investigations conducted.	Science	The Practice of Science	Nature of Science	3	2	Control Click to link
SC.3.N.1.6	Infer based on observation.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.3.N.1.7	Explain that empirical evidence is information, such as observations or measurements, that is used to help validate explanations of natural phenomena.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.4.N.1.2	Compare the observations made by different groups using multiple tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.4.N.1.3	Explain that science does not always follow a rigidly defined method ("the scientific method") but that science does involve the use of observations and empirical evidence.	Science	The Practice of Science	Nature of Science	4	2	Control Click for link
SC.4.N.1.4	Attempt reasonable answers to scientific questions and cite evidence in support.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.4.N.1.6	Keep records that describe observations made, carefully distinguishing actual observations from ideas and inferences about the observations.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link

My Leaf's Tougher Than Yours!

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.5.N.1.1	Define a problem, use appropriate reference materials to support scientific understanding, plan and carry out scientific investigations of various types such as: systematic observations, experiments requiring the identification of variables, collecting and organizing data, interpreting data in charts, tables, and graphics, analyze information, make predictions, and defend conclusions.	Science	The Practice of Science	Nature of Science	5	3	Control Click for link
SC.5.N.1.5	Recognize and explain that authentic scientific investigation frequently does not parallel the steps of "the scientific method."	Science	The Practice of Science	Nature of Science	5	2	Control Click for link
SC.5.N.1.6	Recognize and explain the difference between personal opinion/interpretation and verified observation.	Science	The Practice of Science	Nature of Science	5	2	Control Click for Link
SC.5.N.2.2	Recognize and explain that when scientific investigations are carried out, the evidence produced by those investigations should be replicable by others.	Science	The Practice of Science	Nature of Science	5	2	Control Click for link
SC.6.N.1.2	Explain why scientific investigations should be replicable.	Science	The Practice of Science	Nature of Science	6	3	Control Click for link
SC.1.L.14.1	Make observations of living things and their environment using the five senses.	Science	Organization and Development of Living Organisms	Life Science	1	1	Control Click for link

My Leaf's Tougher Than Yours!

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.1.L.17.1	Through observation, recognize that all plants and animals, including humans, need the basic necessities of air, water, food, and space.	Science	Interdependence	Life Science	1	1	Control Click for link
SC.2.L.17.2	Recognize and explain that living things are found all over Earth, but each is only able to live in habitats that meet its basic needs.	Science	Interdependence	Life Science	2	2	Control Click for link
SC.3.L.14.1	Describe structures in plants and their roles in food production, support, water and nutrient transport, and reproduction.	Science	Organization and Development of Living Organisms	Life Science	3	2	Control Click for link
SC.3.L.14.2	Investigate and describe how plants respond to stimuli (heat, light, gravity), such as the way plant stems grow toward light and their roots grow downward in response to gravity.	Science	Organization and Development of Living Organisms	Life Science	3	3	Control Click for link
SC.5.L.15.1	Describe how, when the environment changes, differences between individuals allow some plants and animals to survive and reproduce while others die or move to new locations.	Science	Diversity and Evolution of Living Organisms	Life Science	5	3	Control Click for link
SC.3.L.17.2	Recognize that plants use energy from the sun, air, and water to make their own food.	Science	Interdependence	Life Science	3	1	Control Click for link
SC.5.L.17.1	Compare and contrast adaptations displayed by animals and plants that enable them to survive in different environments such as life cycles variations, animal behaviors and physical characteristics.	Science	Interdependence	Life Science	5	2	Control Click for link

My Leaf's Tougher Than Yours!

Mosses Are Picky Devils!

Lesson 13

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.K.N.1.2	Make observations of the natural world and know that they are descriptors collected using the five senses.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.K.N.1.5	Recognize that learning can come from careful observation.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.1.N.1.2	Using the five senses as tools, make careful observations, describe objects in terms of number, shape, texture, size, weight, color, and motion, and compare their observations with others.	Science	The Practice of Science	Nature of Science	1	2	Control Click for link
SC.2.N.1.1	Raise questions about the natural world, investigate them in teams through free exploration and systematic observations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	2	3	Control Click for link
SC.2.N.1.2	Compare the observations made by different groups using the same tools.	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.2.N.1.5	Distinguish between empirical observation (what you see, hear, feel, smell, or taste) and ideas or inferences (what you think).	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.3.N.1.2	Compare the observations made by different groups using the same tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link

Mosses Are Picky Devils!

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.3.N.1.3	Keep records as appropriate, such as pictorial, written, or simple charts and graphs, of investigations conducted.	Science	The Practice of Science	Nature of Science	3	2	Control Click for link
SC.3.N.1.6	Infer based on observation.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.4.N.1.2	Compare the observations made by different groups using multiple tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.4.N.1.6	Keep records that describe observations made, carefully distinguishing actual observations from ideas and inferences about the observations.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.5.N.1.6	Recognize and explain the difference between personal opinion/interpretation and verified observation.	Science	The Practice of Science	Nature of Science	5	2	Control Click for Link
SC.1.L.14.1	Make observations of living things and their environment using the five senses.	Science	Organization and Development of Living Organisms	Life Science	1	1	Control Click for link
SC.L.2.16.1	Observe and describe major stages in the life cycles of plants and animals, including beans and butterflies.	Science	Heredity and Reproduction	Life Science	2	2	Control Click for link
SC.1.L.17.1	Through observation, recognize that all plants and animals, including humans, need the basic necessities of air, water, food, and space.	Science	Interdependence	Life Science	1	1	Control Click for link

Mosses Are Picky Devils!

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.2.L.17.2	Recognize and explain that living things are found all over Earth, but each is only able to live in habitats that meet its basic needs.	Science	Interdependence	Life Science	2	2	Control Click for link
SC.3.L.15.2	Classify flowering and nonflowering plants into major groups such as those that produce seeds, or those like ferns and mosses that produce spores, according to their physical characteristics.	Science	Diversity and Evolution of Living Organisms	Life Science	3	2	Control Click for link
SC.4.L.16.4	Compare and contrast the major stages in the life cycles of Florida plants and animals, such as those that undergo incomplete and complete metamorphosis, and flowering and nonflowering seed-bearing plants.	Science	Heredity and Reproduction	Life Science	4	2	Control Click for link
SC.5.L.17.1	Compare and contrast adaptations displayed by animals and plants that enable them to survive in different environments such as life cycles variations, animal behaviors and physical characteristics.	Science	Interdependence	Life Science	5	2	Control Click for link

Mosses Are Picky Devils!

Unusual Animal Tracks

Lesson 14

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.K.N.1.2	Make observations of the natural world and know that they are descriptors collected using the five senses.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.K.N.1.5	Recognize that learning can come from careful observation.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.1.N.1.2	Using the five senses as tools, make careful observations, describe objects in terms of number, shape, texture, size, weight, color, and motion, and compare their observations with others.	Science	The Practice of Science	Nature of Science	1	2	Control Click for link
SC.2.N.1.1	Raise questions about the natural world, investigate them in teams through free exploration and systematic observations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	2	3	Control Click for link
SC.2.N.1.2	Compare the observations made by different groups using the same tools.	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.2.N.1.5	Distinguish between empirical observation (what you see, hear, feel, smell, or taste) and ideas or inferences (what you think).	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.3.N.1.2	Compare the observations made by different groups using the same tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link

Unusual Animal Tracks

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.3.N.1.3	Keep records as appropriate, such as pictorial, written, or simple charts and graphs, of investigations conducted.	Science	The Practice of Science	Nature of Science	3	2	Control Click for link
SC.3.N.1.4	Recognize the importance of communication among scientists.	Science	The Practice of Science	Nature of Science	3	2	Control Click for link
SC.3.N.1.5	Recognize that scientists question, discuss, and check each other's evidence and explanations.	Science	The Practice of Science	Nature of Science	3	2	Control Click for link
SC.3.N.1.6	Infer based on observation.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.3.N.1.7	Explain that empirical evidence is information, such as observations or measurements, that is used to help validate explanations of natural phenomena.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.4. N.1.2	Compare the observations made by different groups using multiple tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.4. N.1.3	Explain that science does not always follow a rigidly defined method ("the scientific method") but that science does involve the use of observations and empirical evidence.	Science	The Practice of Science	Nature of Science	4	2	Control Click for link
SC.4. N.1.4	Attempt reasonable answers to scientific questions and cite evidence in support.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link

Unusual Animal Tracks

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.4.N.1.6	Keep records that describe observations made, carefully distinguishing actual observations from ideas and inferences about the observations.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.4.N.1.7	Recognize and explain that scientists base their explanations on evidence.	Science	The Practice of Science	Nature of Science	4	2	Control Click for link
SC.5.N.1.6	Recognize and explain the difference between personal opinion/interpretation and verified observation.	Science	The Practice of Science	Nature of Science	5	2	Control Click for link
SC.1.L.14.1	Make observations of living things and their environment using the five senses.	Science	Organization and Development of Living Organisms	Life Science	1	1	Control Click for link
SC.1.L.17.1	Through observation, recognize that all plants and animals, including humans, need the basic necessities of air, water, food, and space.	Science	Interdependence	Life Science	1	1	Control Click for link
SC.2.L.17.2	Recognize and explain that living things are found all over Earth, but each is only able to live in habitats that meet its basic needs.	Science	Interdependence	Life Science	2	2	Control Click for link
SC.5.L17.1	Compare and contrast adaptations displayed by animals and plants that enable them to survive in different environments such as life cycles variations, animal behaviors and physical characteristics.	Science	Interdependence	Life Science	5	2	Control Click for link

Unusual Animal Tracks

Keep Your Distance

Lesson 15

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.K.N.1.2	Make observations of the natural world and know that they are descriptors collected using the five senses.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.K.N.1.5	Recognize that learning can come from careful observation.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.1.N.1.2	Using the five senses as tools, make careful observations, describe objects in terms of number, shape, texture, size, weight, color, and motion, and compare their observations with others.	Science	The Practice of Science	Nature of Science	1	2	Control Click for link
SC.2.N.1.1	Raise questions about the natural world, investigate them in teams through free exploration and systematic observations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	2	3	Control Click for link
SC.2.N.1.2	Compare the observations made by different groups using the same tools.	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.2.N.1.5	Distinguish between empirical observation (what you see, hear, feel, smell, or taste) and ideas or inferences (what you think).	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.3.N.1.2	Compare the observations made by different groups using the same tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link

Keep Your Distance

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.3.N.1.3	Keep records as appropriate, such as pictorial, written, or simple charts and graphs, of investigations conducted.	Science	The Practice of Science	Nature of Science	3	2	Control Click for link
SC.3.N.1.6	Infer based on observation.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.4.N.1.2	Compare the observations made by different groups using multiple tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.4.N.1.4	Attempt reasonable answers to scientific questions and cite evidence in support.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.4.N.1.6	Keep records that describe observations made, carefully distinguishing actual observations from ideas and inferences about the observations.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.5.N.1.6	Recognize and explain the difference between personal opinion/interpretation and verified observation.	Science	The Practice of Science	Nature of Science	5	2	Control Click for link
SC.1.L.14.1	Make observations of living things and their environment using the five senses.	Science	Organization and Development of Living Organisms	Life Science	1	1	Control Click for link
SC.1.L.17.1	Through observation, recognize that all plants and animals, including humans, need the basic necessities of air, water, food, and space.	Science	Interdependence	Life Science	1	1	Control Click for link

Keep Your Distance

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.2.L.17.2	Recognize and explain that living things are found all over Earth, but each is only able to live in habitats that meet its basic needs.	Science	Interdependence	Life Science	2	2	Control Click for link
SC.3.L.17.1	Describe how animals and plants respond to changing seasons.	Science	Interdependence	Life Science	3	2	Control Click for link
SC.4.L.17.2	Explain that animals, including humans, cannot make their own food and that when animals eat plants or other animals, the energy stored in the food source is passed to them.	Science	Interdependence	Life Science	4	2	Control Click for link
SC.4.L.17.4	Recognize ways plants and animals, including humans, can impact the environment.	Science	Interdependence	Life Science	4	2	Control Click for link

Keep Your Distance

Have Seed, Will Travel

Lesson 16

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.K.N.1.1	Collaborate with a partner to collect information.	Science	The Practice of Science	Nature of Science	K	1	Control Click for link
SC.K.N.1.2	Make observations of the natural world and know that they are descriptors collected using the five senses.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.K.N.1.5	Recognize that learning can come from careful observation.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.1.N.1.2	Using the five senses as tools, make careful observations, describe objects in terms of number, shape, texture, size, weight, color, and motion, and compare their observations with others.	Science	The Practice of Science	Nature of Science	1	2	Control Click for link
SC.2.N.1.1	Raise questions about the natural world, investigate them in teams through free exploration and systematic observations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	2	3	Control Click for link
SC.2.N.1.2	Compare the observations made by different groups using the same tools.	Science	The Practice of Science	Nature of Science	2	2	Control Click for link

Have Seed, Will Travel

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.2.N.1.5	Distinguish between empirical observation (what you see, hear, feel, smell, or taste) and ideas or inferences (what you think).	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.3.N.1.2	Compare the observations made by different groups using the same tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.3.N.1.3	Keep records as appropriate, such as pictorial, written, or simple charts and graphs, of investigations conducted.	Science	The Practice of Science	Nature of Science	3	2	Control Click for link
SC.3.N.1.6	Infer based on observation.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.3.N.1.7	Explain that empirical evidence is information, such as observations or measurements, that is used to help validate explanations of natural phenomena.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.4.N.1.1	Raise questions about the natural world, use appropriate reference materials that support understanding to obtain information (identifying the source), conduct both individual and team investigations through free exploration and systematic investigations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link

Have Seed, Will Travel

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.4.N.1.2	Compare the observations made by different groups using multiple tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.4.N.1.6	Keep records that describe observations made, carefully distinguishing actual observations from ideas and inferences about the observations.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.5.N.1.1	Define a problem, use appropriate reference materials to support scientific understanding, plan and carry out scientific investigations of various types such as: systematic observations, experiments requiring the identification of variables, collecting and organizing data, interpreting data in charts, tables, and graphics, analyze information, make predictions, and defend conclusions.	Science	The Practice of Science	Nature of Science	5	3	Control Click for link
SC.5.N.1.6	Recognize and explain the difference between personal opinion/interpretation and verified observation.	Science	The Practice of Science	Nature of Science	5	2	Control Click for link
SC.1.L.14.1	Make observations of living things and their environment using the five senses.	Science	Organization and Development of Living Organisms	Life Science	1	1	Control Click for link
SC.1.L.14.2	Identify the major parts of plants, including stem, roots, leaves, and flowers.	Science	Organization and Development of Living Organisms	Life Science	1	1	Control Click for link
SC.1.L.17.1	Through observation, recognize that all plants and animals, including humans, need the basic necessities of air, water, food, and space.	Science	Interdependence	Life Science	1	1	Control Click for link

Have Seed, Will Travel

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.2.L.17.2	Compare and contrast the basic needs that all living things, including humans, have for survival.	Science	Interdependence	Life Science	2	2	Control Click for link
SC.2.L.17.2	Recognize and explain that living things are found all over Earth, but each is only able to live in habitats that meet its basic needs.	Science	Interdependence	Life Science	2	2	Control Click for link
SC.3.L.14.1	Describe structures in plants and their roles in food production, support, water and nutrient transport, and reproduction.	Science	Organization and Development of Living Organisms	Life Science	3	2	Control Click for link
SC.3.L.15.2	Classify flowering and nonflowering plants into major groups such as those that produce seeds, or those like ferns and mosses that produce spores, according to their physical characteristics.	Science	Organization and Development of Living Organisms	Life Science	3	2	Control Click for link
SC.3.L.15.2	Classify flowering and nonflowering plants into major groups such as those that produce seeds, or those like ferns and mosses that produce spores, according to their physical characteristics.	Science	Organization and Development of Living Organisms	Life Science	3	2	Control Click for link
SC.4.L.16.1	Identify processes of sexual reproduction in flowering plants, including pollination, fertilization (seed production), seed dispersal, and germination.	Science	Heredity and Reproduction	Life Science	4	2	Control Click for link
SC.4.L.17.4	Recognize ways plants and animals, including humans, can impact the environment.	Science	Interdependence	Life Science	4	3	Control Click for link

Have Seed, Will Travel

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.5.L.17.1	Compare and contrast adaptations displayed by animals and plants that enable them to survive in different environments such as life cycles variations, animal behaviors and physical characteristics.	Science	Interdependence	Life Science	5	2	Control Click for link

Have Seed, Will Travel

Hitching a Ride

Lesson 17

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.K.N.1.2	Make observations of the natural world and know that they are descriptors collected using the five senses.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.K.N.1.5	Recognize that learning can come from careful observation.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.1.N.1.2	Using the five senses as tools, make careful observations, describe objects in terms of number, shape, texture, size, weight, color, and motion, and compare their observations with others.	Science	The Practice of Science	Nature of Science	1	2	Control Click for link
SC.2.N.1.1	Raise questions about the natural world, investigate them in teams through free exploration and systematic observations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	2	3	Control Click for link
SC.2.N.1.2	Compare the observations made by different groups using the same tools.	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.3.N.1.2	Compare the observations made by different groups using the same tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.3.N.1.6	Infer based on observation.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link

Hitching a Ride

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.3.N.1.7	Explain that empirical evidence is information, such as observations or measurements, that is used to help validate explanations of natural phenomena.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.4.N.1.2	Compare the observations made by different groups using multiple tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.4.N.1.4	Attempt reasonable answers to scientific questions and cite evidence in support.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.4.N.1.7	Recognize and explain that scientists base their explanations on evidence.	Science	The Practice of Science	Nature of Science	4	2	Control Click for link
SC.6.N.1.4	Discuss, compare, and negotiate methods used, results obtained, and explanations among groups of students conducting the same investigation.	Science	The Practice of Science	Nature of Science	6	3	Control Click for link
SC.6.N.1.5	Recognize that science involves creativity, not just in designing experiments, but also in creating explanations that fit evidence.	Science	The Practice of Science	Nature of Science	6	2	Control Click for link
SC.1.L.14.1	Make observations of living things and their environment using the five senses.	Science	Organization and Development of Living Organisms	Life Science	1	1	Control Click for link
SC.2.L 17.2	Recognize and explain that living things are found all over Earth, but each is only able to live in habitats that meet its basic needs.	Science	Interdependence	Life Science	2	2	Control Click for link

Hitching a Ride

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.3.L.14.1	Describe structures in plants and their roles in food production, support, water and nutrient transport, and reproduction.	Science	Organization and Development of Living Organisms	Life Science	3	2	Control Click for link
SC.4.L.16.1	Identify processes of sexual reproduction in flowering plants, including pollination, fertilization (seed production), seed dispersal, and germination.	Science	Heredity and Reproduction	Life Science	4	2	Control Click for link
SC.5.L.17.1	Compare and contrast adaptations displayed by animals and plants that enable them to survive in different environments such as life cycles variations, animal behaviors and physical characteristics.	Science	Interdependence	Life Science	5	2	Control Click for link

Hitching a Ride

Animal Seed Movers

Lesson 18

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.K.N.1.2	Make observations of the natural world and know that they are descriptors collected using the five senses.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.K.N.1.5	Recognize that learning can come from careful observation.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.1.N.1.1	Raise questions about the natural world, investigate them in teams through free exploration, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	1	3	Control Click for link
SC.1.N.1.2	Using the five senses as tools, make careful observations, describe objects in terms of number, shape, texture, size, weight, color, and motion, and compare their observations with others.	Science	The Practice of Science	Nature of Science	1	2	Control Click for link
SC.2.N.1.1	Raise questions about the natural world, investigate them in teams through free exploration and systematic observations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	2	3	Control Click for link
SC.2.N.1.2	Compare the observations made by different groups using the same tools.	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.2.N.1.5	Distinguish between empirical observation (what you see, hear, feel, smell, or taste) and ideas or inferences (what you think).	Science	The Practice of Science	Nature of Science	2	2	Control Click for link

Animal Seed Movers

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.3.N.1.1	Raise questions about the natural world, investigate them individually and in teams through free exploration and systematic investigations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.3.N.1.2	Compare the observations made by different groups using the same tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.3.N.1.3	Keep records as appropriate, such as pictorial, written, or simple charts and graphs, of investigations conducted.	Science	The Practice of Science	Nature of Science	3	2	Control Click for link
SC.3.N.1.4	Recognize the importance of communication among scientists.	Science	The Practice of Science	Nature of Science	3	2	Control Click for link
SC.4.N.1.1	Raise questions about the natural world, use appropriate reference materials that support understanding to obtain information (identifying the source), conduct both individual and team investigations through free exploration and systematic investigations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.4.N.1.2	Compare the observations made by different groups using multiple tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link

Animal Seed Movers

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.4.N.1.5	Compare the methods and results of investigations done by other classmates.	Science	The Practice of Science	Nature of Science	4	2	Control Click for link
SC.6.N.1.4	Discuss, compare, and negotiate methods used, results obtained, and explanations among groups of students conducting the same investigation.	Science	The Practice of Science	Nature of Science	6	3	Control Click for link
SC.3.N.1.6	Infer based on observation.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.3.N.1.7	Explain that empirical evidence is information, such as observations or measurements, that is used to help validate explanations of natural phenomena.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.4.N.1.8	Recognize that science involves creativity in designing experiments.	Science	The Practice of Science	Nature of Science	4	2	Control Click for link
SC.5.N.1.1	Define a problem, use appropriate reference materials to support scientific understanding, plan and carry out scientific investigations of various types such as: systematic observations, experiments requiring the identification of variables, collecting and organizing data, interpreting data in charts, tables, and graphics, analyze information, make predictions, and defend conclusions.	Science	The Practice of Science	Nature of Science	5	3	Control Click for link
SC.5.N.1.6	Recognize and explain the difference between personal opinion/interpretation and verified observation.	Science	The Practice of Science	Nature of Science	5	2	Control Click for link

Animal Seed Movers

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.6.N.1.5	Recognize that science involves creativity, not just in designing experiments, but also in creating explanations that fit evidence.	Science	The Practice of Science	Nature of Science	6	2	Control Click for link
SC.1.L.14.1	Make observations of living things and their environment using the five senses.	Science	Organization and Development of Living Organisms	Life Science	1	1	Control Click for link
SC.4.L.16.1	Identify processes of sexual reproduction in flowering plants, including pollination, fertilization (seed production), seed dispersal, and germination.	Science	Heredity and Reproduction	Life Science	4	2	Control Click for link

Animal Seed Movers

Web Weavers

Lesson 19

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.K.N.1.2	Make observations of the natural world and know that they are descriptors collected using the five senses.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.K.N.1.5	Recognize that learning can come from careful observation.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.1.N.1.2	Using the five senses as tools, make careful observations, describe objects in terms of number, shape, texture, size, weight, color, and motion, and compare their observations with others.	Science	The Practice of Science	Nature of Science	1	2	Control Click for link
SC.2.N.1.1	Raise questions about the natural world, investigate them in teams through free exploration and systematic observations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	2	3	Control Click for link
SC.2.N.1.2	Compare the observations made by different groups using the same tools.	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.2.N.1.5	Distinguish between empirical observation (what you see, hear, feel, smell, or taste) and ideas or inferences (what you think).	Science	The Practice of Science	Nature of Science	2	2	Control Click for link

Web Weavers

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.3.N.1.3	Keep records as appropriate, such as pictorial, written, or simple charts and graphs, of investigations conducted.	Science	The Practice of Science	Nature of Science	3	2	Control Click for link
SC.3.N.1.4	Recognize the importance of communication among scientists.	Science	The Practice of Science	Nature of Science	3	2	Control Click for link
SC.3.N.1.6	Infer based on observation.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.3.N.1.7	Explain that empirical evidence is information, such as observations or measurements, that is used to help validate explanations of natural phenomena.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.4.N.1.6	Keep records that describe observations made, carefully distinguishing actual observations from ideas and inferences about the observations.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.5.N.1.6	Recognize and explain the difference between personal opinion/interpretation and verified observation.	Science	The Practice of Science	Nature of Science	5	2	Control Click for Link
SC.1.L.14.1	Make observations of living things and their environment using the five senses.	Science	Organization and Development of Living Organisms	Life Science	1	1	Control Click for link
SC.1.L.17.1	Through observation, recognize that all plants and animals, including humans, need the basic necessities of air, water, food, and space.	Science	Interdependence	Life Science	1	1	Control Click for link

Web Weavers

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.2.L.17.2	Recognize and explain that living things are found all over Earth, but each is only able to live in habitats that meet its basic needs.	Science	Interdependence	Life Science	2	2	Control Click for link
SC.4.L.17.4	Recognize ways plants and animals, including humans, can impact the environment.	Science	Interdependence	Life Science	4	3	Control Click for link
SC.6.L.15.1	Analyze and describe how and why organisms are classified according to shared characteristics with emphasis on the Linnaean system combined with the concept of Domains.	Science	Diversity and Evolution of Living Organisms	Life Science	6	3	Control Click for link

Web Weavers

How Does a Spider Spell Success?

Lesson 20

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.K.N.1.2	Make observations of the natural world and know that they are descriptors collected using the five senses.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.K.N.1.5	Recognize that learning can come from careful observation.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.1.N.1.2	Using the five senses as tools, make careful observations, describe objects in terms of number, shape, texture, size, weight, color, and motion, and compare their observations with others.	Science	The Practice of Science	Nature of Science	1	2	Control Click for link
SC.2.N.1.1	Raise questions about the natural world, investigate them in teams through free exploration and systematic observations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	2	3	Control Click for link
SC.2.N.1.2	Compare the observations made by different groups using the same tools.	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.2.N.1.5	Distinguish between empirical observation (what you see, hear, feel, smell, or taste) and ideas or inferences (what you think).	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.3.N.1.2	Compare the observations made by different groups using the same tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link

How Does A Spider Spell Success?

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.3.N.1.3	Keep records as appropriate, such as pictorial, written, or simple charts and graphs, of investigations conducted.	Science	The Practice of Science	Nature of Science	3	2	Control Click for link
SC.3.N.1.6	Infer based on observation.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.3.N.1.7	Explain that empirical evidence is information, such as observations or measurements, that is used to help validate explanations of natural phenomena.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.4.N.1.2	Compare the observations made by different groups using multiple tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.4.N.1.3	Explain that science does not always follow a rigidly defined method ("the scientific method") but that science does involve the use of observations and empirical evidence.	Science	The Practice of Science	Nature of Science	4	2	Control Click for link
SC.4.N.1.6	Keep records that describe observations made, carefully distinguishing actual observations from ideas and inferences about the observations.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.5.N.1.6	Recognize and explain the difference between personal opinion/interpretation and verified observation.	Science	The Practice of Science	Nature of Science	5	2	Control Click for link

How Does A Spider Spell Success?

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.5.N.2.1	Recognize and explain that science is grounded in empirical observations that are testable; explanation must always be linked with evidence.	Science	The Practice of Science	Nature of Science	5	2	Control Click for link
SC.1.L.14.1	Make observations of living things and their environment using the five senses.	Science	Organization and Development of Living Organisms	Life Science	1	1	Control Click for link
SC.1.L.17.1	Through observation, recognize that all plants and animals, including humans, need the basic necessities of air, water, food, and space.	Science	Interdependence	Life Science	1	1	Control Click for link
SC.2.L.17.2	Recognize and explain that living things are found all over Earth, but each is only able to live in habitats that meet its basic needs.	Science	Interdependence	Life Science	2	2	Control Click for link
SC.4.L.16.2	Explain that although characteristics of plants and animals are inherited, some characteristics can be affected by the environment.	Science	Heredity and Reproduction	Life Science	4	3	Control Click for link
SC.5.L.17.1	Compare and contrast adaptations displayed by animals and plants that enable them to survive in different environments such as life cycles variations, animal behaviors and physical characteristics.	Science	Interdependence	Life Science	5	2	Control Click for link

How Does A Spider Spell Success?

The Pit and the Ant Lion

Lesson 21

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.K.N.1.2	Make observations of the natural world and know that they are descriptors collected using the five senses.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.K.N.1.5	Recognize that learning can come from careful observation.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.1.N.1.2	Using the five senses as tools, make careful observations, describe objects in terms of number, shape, texture, size, weight, color, and motion, and compare their observations with others.	Science	The Practice of Science	Nature of Science	1	2	Control Click for link
SC.2.N.1.1	Raise questions about the natural world, investigate them in teams through free exploration and systematic observations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	2	3	Control Click for link
SC.2.N.1.2	Compare the observations made by different groups using the same tools.	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.2.N.1.5	Distinguish between empirical observation (what you see, hear, feel, smell, or taste) and ideas or inferences (what you think).	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.3.N.1.2	Compare the observations made by different groups using the same tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link

The Pit and the Ant Lion

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.3.N.1.3	Keep records as appropriate, such as pictorial, written, or simple charts and graphs, of investigations conducted.	Science	The Practice of Science	Nature of Science	3	2	Control Click for link
SC.3.N.1.6	Infer based on observation.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.3.N.1.7	Explain that empirical evidence is information, such as observations or measurements, that is used to help validate explanations of natural phenomena.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.4.N.1.2	Compare the observations made by different groups using multiple tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.4.N.1.3	Explain that science does not always follow a rigidly defined method ("the scientific method") but that science does involve the use of observations and empirical evidence.	Science	The Practice of Science	Nature of Science	4	2	Control Click for link
SC.4.N.1.6	Keep records that describe observations made, carefully distinguishing actual observations from ideas and inferences about the observations.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.4.N.1.8	Recognize that science involves creativity in designing experiments.	Science	The Practice of Science	Nature of Science	4	2	Control Click for link

The Pit and the Ant Lion

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.5.N.1.1	Define a problem, use appropriate reference materials to support scientific understanding, plan and carry out scientific investigations of various types such as: systematic observations, experiments requiring the identification of variables, collecting and organizing data, interpreting data in charts, tables, and graphics, analyze information, make predictions, and defend conclusions.	Science	The Practice of Science	Nature of Science	5	3	Control Click for link
SC.5.N.1.5	Recognize and explain that authentic scientific investigation frequently does not parallel the steps of "the scientific method."	Science	The Practice of Science	Nature of Science	5	2	Control Click for link
SC.5.N.1.6	Recognize and explain the difference between personal opinion/interpretation and verified observation.	Science	The Practice of Science	Nature of Science	5	2	Control Click for Link
SC.6.N.1.5	Recognize that science involves creativity, not just in designing experiments, but also in creating explanations that fit evidence.	Science	The Practice of Science	Nature of Science	6	2	Control Click for link
SC.1.L.14.1	Make observations of living things and their environment using the five senses.	Science	Organization and Development of Living Organisms	Life Science	1	1	Control Click for link
SC.1.L.17.1	Through observation, recognize that all plants and animals, including humans, need the basic necessities of air, water, food, and space.	Science	Interdependence	Life Science	1	1	Control Click for link

The Pit and the Ant Lion

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.2.L.16.1	Observe and describe major stages in the life cycles of plants and animals, including beans and butterflies.	Science	Heredity and Reproduction	Life Science	2	2	Control Click for link
SC.2.L.17.2	Recognize and explain that living things are found all over Earth, but each is only able to live in habitats that meet its basic needs.	Science	Interdependence	Life Science	2	2	Control Click for link
SC.5.L.17.1	Compare and contrast adaptations displayed by animals and plants that enable them to survive in different environments such as life cycles variations, animal behaviors and physical characteristics.	Science	Interdependence	Life Science	5	2	Control Click for link

The Pit and the Ant Lion

Dare to Be Different!

Lesson 22

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.K.N.1.2	Make observations of the natural world and know that they are descriptors collected using the five senses.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.K.N.1.5	Recognize that learning can come from careful observation.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.1.N.1.2	Using the five senses as tools, make careful observations, describe objects in terms of number, shape, texture, size, weight, color, and motion, and compare their observations with others.	Science	The Practice of Science	Nature of Science	1	2	Control Click for link
SC.2.N.1.1	Raise questions about the natural world, investigate them in teams through free exploration and systematic observations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	2	3	Control Click for link
SC.2.N.1.2	Compare the observations made by different groups using the same tools.	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.2.N.1.5	Distinguish between empirical observation (what you see, hear, feel, smell, or taste) and ideas or inferences (what you think).	Science	The Practice of Science	Nature of Science	2	2	Control Click for link

Dare to Be Different!

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.3.N.1.2	Compare the observations made by different groups using the same tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.3.N.1.3	Keep records as appropriate, such as pictorial, written, or simple charts and graphs, of investigations conducted.	Science	The Practice of Science	Nature of Science	3	2	Control Click for link
SC.3.N.1.4	Recognize the importance of communication among scientists.	Science	The Practice of Science	Nature of Science	3	2	Control Click for link
SC.3.N.1.6	Infer based on observation.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.3.N.1.7	Explain that empirical evidence is information, such as observations or measurements, that is used to help validate explanations of natural phenomena.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.4.N.1.2	Compare the observations made by different groups using multiple tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.4.N.1.3	Explain that science does not always follow a rigidly defined method ("the scientific method") but that science does involve the use of observations and empirical evidence.	Science	The Practice of Science	Nature of Science	4	2	Control Click for link
SC.4.N.1.6	Keep records that describe observations made, carefully distinguishing actual observations from ideas and inferences about the observations.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link

Dare to Be Different!

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.5.N.1.1	Define a problem, use appropriate reference materials to support scientific understanding, plan and carry out scientific investigations of various types such as: systematic observations, experiments requiring the identification of variables, collecting and organizing data, interpreting data in charts, tables, and graphics, analyze information, make predictions, and defend conclusions.	Science	The Practice of Science	Nature of Science	5	3	Control Click for link
SC.5.N.1.5	Recognize and explain that authentic scientific investigation frequently does not parallel the steps of "the scientific method."	Science	The Practice of Science	Nature of Science	5	2	Control Click for link
SC.5.N.1.6	Recognize and explain the difference between personal opinion/interpretation and verified observation.	Science	The Practice of Science	Nature of Science	5	2	Control Click for Link
SC.1.L.14.1	Make observations of living things and their environment using the five senses.	Science	Organization and Development of Living Organisms	Life Science	1	1	Control Click for link
SC.1.L.17.1	Through observation, recognize that all plants and animals, including humans, need the basic necessities of air, water, food, and space.	Science	Interdependence	Life Science	1	1	Control Click for link
SC.2.L.16.1	Observe and describe major stages in the life cycles of plants and animals, including beans and butterflies.	Science	Heredity and Reproduction	Life Science	2	2	Control Click for link
SC.2.L.17.1	Compare and contrast the basic needs that all living things, including humans, have for survival.	Science	Interdependence	Life Science	2	2	Control Click for link

Dare to Be Different!

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.2.L.17.2	Recognize and explain that living things are found all over Earth, but each is only able to live in habitats that meet its basic needs.	Science	Interdependence	Life Science	2	2	Control Click for link
SC.3.L.17.1	Describe how animals and plants respond to changing seasons.	Science	Interdependence	Life Science	3	2	Control Click for link
SC.4.L.16.4	Compare and contrast the major stages in the life cycles of Florida plants and animals, such as those that undergo incomplete and complete metamorphosis, and flowering and nonflowering seed-bearing plants.	Science	Heredity and Reproduction	Life Science	4	2	Control Click for link
SC.4.L.17.4	Recognize ways plants and animals, including humans, can impact the environment.	Science	Interdependence	Life Science	4	3	Control Click for link
SC.5.L.17.1	Compare and contrast adaptations displayed by animals and plants that enable them to survive in different environments such as life cycles variations, animal behaviors and physical characteristics.	Science	Interdependence	Life Science	5	2	Control Click for link
SC.6.L.16.1	Analyze and describe how and why organisms are classified according to shared characteristics with emphasis on the Linnaean system combined with the concept of Domains.	Science	Diversity and Evolution of Living Things	Life Science	6	3	Control Click for link

Dare to Be Different!

Caterpillar Defenses

Lesson 23

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.K.N.1.2	Make observations of the natural world and know that they are descriptors collected using the five senses.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.K.N.1.5	Recognize that learning can come from careful observation.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.1.N.1.1	Raise questions about the natural world, investigate them in teams through free exploration, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	1	3	Control Click for link
SC.1.N.1.2	Using the five senses as tools, make careful observations, describe objects in terms of number, shape, texture, size, weight, color, and motion, and compare their observations with others.	Science	The Practice of Science	Nature of Science	1	2	Control Click for link
SC.2.N.1.1	Raise questions about the natural world, investigate them in teams through free exploration and systematic observations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	2	3	Control Click for link
SC.2.N.1.5	Distinguish between empirical observation (what you see, hear, feel, smell, or taste) and ideas or inferences (what you think).	Science	The Practice of Science	Nature of Science	2	2	Control Click for link

Caterpillar Defenses

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.3.N.1.1	Raise questions about the natural world, investigate them individually and in teams through free exploration and systematic investigations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	The Nature of Science	3	3	Control Click for link
SC.3.N.1.2	Compare the observations made by different groups using the same tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.3.N.1.3	Keep records as appropriate, such as pictorial, written, or simple charts and graphs, of investigations conducted.	Science	The Practice of Science	Nature of Science	3	2	Control Click for link
SC.3.N.1.6	Infer based on observation.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.4.N.1.1	Raise questions about the natural world, use appropriate reference materials that support understanding to obtain information (identifying the source), conduct both individual and team investigations through free exploration and systematic investigations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.4.N.1.2	Compare the observations made by different groups using multiple tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link

Caterpillar Defenses

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.4.N.1.3	Explain that science does not always follow a rigidly defined method ("the scientific method") but that science does involve the use of observations and empirical evidence.	Science	The Practice of Science	Nature of Science	4	2	Control Click for link
SC.4.N.1.6	Keep records that describe observations made, carefully distinguishing actual observations from ideas and inferences about the observations.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.5.N.1.6	Recognize and explain the difference between personal opinion/interpretation and verified observation.	Science	The Practice of Science	Nature of Science	5	2	Control Click for link
SC.1.L.14.1	Make observations of living things and their environment using the five senses.	Science	Organization and Development of Living Organisms	Life Science	1	1	Control Click for link
SC.1.L.17.1	Through observation, recognize that all plants and animals, including humans, need the basic necessities of air, water, food, and space.	Science	Interdependence	Life Science	1	1	Control Click for link
SC.2.L.16.1	Observe and describe major stages in the life cycles of plants and animals, including beans and butterflies.	Science	Heredity and Reproduction	Life Science	2	2	Control Click for link
SC.2.L.17.2	Recognize and explain that living things are found all over Earth, but each is only able to live in habitats that meet its basic needs.	Science	Interdependence	Life Science	2	2	Control Click for link

Caterpillar Defenses

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.4.L.16.4	Compare and contrast the major stages in the life cycles of Florida plants and animals, such as those that undergo incomplete and complete metamorphosis, and flowering and nonflowering seed-bearing plants.	Science	Heredity and Reproduction	Life Science	4	2	Control Click for link
SC.5.L.17.1	Compare and contrast adaptations displayed by animals and plants that enable them to survive in different environments such as life cycles variations, animal behaviors and physical characteristics.	Science	Interdependence	Life Science	5	2	Control Click for link

Caterpillar Defenses

If You Have It, Should You Flaunt It? Lesson 24

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.K.N.1.2	Make observations of the natural world and know that they are descriptors collected using the five senses.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.K.N.1.5	Recognize that learning can come from careful observation.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.1.N.1.2	Using the five senses as tools, make careful observations, describe objects in terms of number, shape, texture, size, weight, color, and motion, and compare their observations with others.	Science	The Practice of Science	Nature of Science	1	2	Control Click for link
SC.2.N.1.1	Raise questions about the natural world, investigate them in teams through free exploration and systematic observations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	2	3	Control Click for link
SC.2.N.1.2	Compare the observations made by different groups using the same tools.	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.2.N.1.5	Distinguish between empirical observation (what you see, hear, feel, smell, or taste) and ideas or inferences (what you think).	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.3.N.1.2	Compare the observations made by different groups using the same tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link

If You Have It, Should You Flaunt It?

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.3.N.1.3	Keep records as appropriate, such as pictorial, written, or simple charts and graphs, of investigations conducted.	Science	The Practice of Science	Nature of Science	3	2	Control Click for link
SC.3.N.1.6	Infer based on observation.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.3.N.1.7	Explain that empirical evidence is information, such as observations or measurements, that is used to help validate explanations of natural phenomena.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.4.N.1.2	Compare the observations made by different groups using multiple tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.4.N.1.3	Explain that science does not always follow a rigidly defined method ("the scientific method") but that science does involve the use of observations and empirical evidence.	Science	The Practice of Science	Nature of Science	4	2	Control Click for link
SC.4.N.1.6	Keep records that describe observations made, carefully distinguishing actual observations from ideas and inferences about the observations.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link

If You Have It, Should You Flaunt It?

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.5.N.1.1	Define a problem, use appropriate reference materials to support scientific understanding, plan and carry out scientific investigations of various types such as: systematic observations, experiments requiring the identification of variables, collecting and organizing data, interpreting data in charts, tables, and graphics, analyze information, make predictions, and defend conclusions.	Science	The Practice of Science	Nature of Science	5	3	Control Click for link
SC.5.N.1.6	Recognize and explain the difference between personal opinion/interpretation and verified observation.	Science	The Practice of Science	Nature of Science	5	2	Control Click for link
SC.1.L.14.1	Make observations of living things and their environment using the five senses.	Science	Organization and Development of Living Organisms	Life Science	1	1	Control Click for link
SC.4.L.16.3	Recognize that animal behaviors may be shaped by heredity and learning.	Science	Heredity and Reproduction	Life Science	4	3	Control Click for link
SC.5.L.17.1	Compare and contrast adaptations displayed by animals and plants that enable them to survive in different environments such as life cycles variations, animal behaviors and physical characteristics.	Science	Interdependence	Life Science	5	2	Control Click for link

If You Have It, Should You Flaunt It?

How to Keep a Grasshopper from Munching

Lesson 25

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.K.N.1.2	Make observations of the natural world and know that they are descriptors collected using the five senses.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.K.N.1.5	Recognize that learning can come from careful observation.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.1.N.1.2	Using the five senses as tools, make careful observations, describe objects in terms of number, shape, texture, size, weight, color, and motion, and compare their observations with others.	Science	The Practice of Science	Nature of Science	1	2	Control Click for link
SC.2.N.1.1	Raise questions about the natural world, investigate them in teams through free exploration and systematic observations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	2	3	Control Click for link
SC.2.N.1.2	Compare the observations made by different groups using the same tools.	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.2.N.1.5	Distinguish between empirical observation (what you see, hear, feel, smell, or taste) and ideas or inferences (what you think).	Science	The Practice of Science	Nature of Science	2	2	Control Click for link

How to Keep a Grasshopper from Munching

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.3.N.1.2	Compare the observations made by different groups using the same tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.3.N.1.6	Infer based on observation.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.3.N.1.7	Explain that empirical evidence is information, such as observations or measurements, that is used to help validate explanations of natural phenomena.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.4.N.1.2	Compare the observations made by different groups using multiple tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.4.N.1.3	Explain that science does not always follow a rigidly defined method ("the scientific method") but that science does involve the use of observations and empirical evidence.	Science	The Practice of Science	Nature of Science	4	2	Control Click for link
SC.4.N.1.5	Compare the methods and results of investigations done by other classmates.	Science	The Practice of Science	Nature of Science	4	2	Control Click for link
SC.4.N.1.6	Keep records that describe observations made, carefully distinguishing actual observations from ideas and inferences about the observations.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.5.N.1.5	Recognize and explain that authentic scientific investigation frequently does not parallel the steps of "the scientific method."	Science	The Practice of Science	Nature of Science	5	2	Control Click for link

How to Keep a Grasshopper from Munching

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.5.N.1.6	Recognize and explain the difference between personal opinion/interpretation and verified observation.	Science	The Practice of Science	Nature of Science	5	2	Control Click for link
SC.1.L.14.1	Make observations of living things and their environment using the five senses.	Science	Organization and Development of Living Organisms	Life Science	1	1	Control Click for link
SC.1.L.17.1	Through observation, recognize that all plants and animals, including humans, need the basic necessities of air, water, food, and space.	Science	Interdependence	Life Science	1	1	Control Click for link
SC.2.L.16.1	Observe and describe major stages in the life cycles of plants and animals, including beans and butterflies.	Science	Heredity and Reproduction	Life Science	2	2	Control Click for link
16.4.L.16.3	Recognize that animal behaviors may be shaped by heredity and learning.	Science	Heredity and Reproduction	Life Science	4	3	Control Click for link
SC.4.L.16.4	Compare and contrast the major stages in the life cycles of Florida plants and animals, such as those that undergo incomplete and complete metamorphosis, and flowering and nonflowering seed-bearing plants.	Science	Heredity and Reproduction	Life Science	4	2	Control Click for link
SC.5.L.17.1	Compare and contrast adaptations displayed by animals and plants that enable them to survive in different environments such as life cycles variations, animal behaviors and physical characteristics.	Science	Interdependence	Life Science	5	2	Control Click for link

How to Keep a Grasshopper from Munching

The Leaf-Miner League

Lesson 26

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.K.N.1.2	Make observations of the natural world and know that they are descriptors collected using the five senses.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.K.N.1.5	Recognize that learning can come from careful observation.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.1.N.1.2	Using the five senses as tools, make careful observations, describe objects in terms of number, shape, texture, size, weight, color, and motion, and compare their observations with others.	Science	The Practice of Science	Nature of Science	1	2	Control Click for link
SC.2.N.1.1	Raise questions about the natural world, investigate them in teams through free exploration and systematic observations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	2	3	Control Click for link
SC.2.N.1.2	Compare the observations made by different groups using the same tools.	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.2.N.1.5	Distinguish between empirical observation (what you see, hear, feel, smell, or taste) and ideas or inferences (what you think).	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.3.N.1.2	Compare the observations made by different groups using the same tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link

The Leaf-Miner League

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.3.N.1.3	Keep records as appropriate, such as pictorial, written, or simple charts and graphs, of investigations conducted.	Science	The Practice of Science	Nature of Science	3	2	Control Click for link
SC.3.N.1.6	Infer based on observation.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.3.N.1.7	Explain that empirical evidence is information, such as observations or measurements, that is used to help validate explanations of natural phenomena.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.4.N.1.2	Compare the observations made by different groups using multiple tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.4.N.1.3	Explain that science does not always follow a rigidly defined method ("the scientific method") but that science does involve the use of observations and empirical evidence.	Science	The Practice of Science	Nature of Science	4	2	Control Click for link
SC.4.N.1.6	Keep records that describe observations made, carefully distinguishing actual observations from ideas and inferences about the observations.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.5.N.1.5	Recognize and explain that authentic scientific investigation frequently does not parallel the steps of "the scientific method."	Science	The Practice of Science	Nature of Science	5	2	Control Click for link

The Leaf-Miner League

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.5.N.1.6	Recognize and explain the difference between personal opinion/interpretation and verified observation.	Science	The Practice of Science	Nature of Science	5	2	Control Click for link
SC.1.L.14.1	Make observations of living things and their environment using the five senses.	Science	Organization and Development of Living Organisms	Life Science	1	1	Control Click for link
SC.1.L.14.2	Identify the major parts of plants, including stem, roots, leaves, and flowers.	Science	Organization and Development of Living Organisms	Life Science	1	1	Control Click for link
SC.1.L.17.1	Through observation, recognize that all plants and animals, including humans, need the basic necessities of air, water, food, and space.	Science	Interdependence	Life Science	1	1	Control Click for link
SC.2.L.16.1	Observe and describe major stages in the life cycles of plants and animals, including beans and butterflies.	Science	Heredity and Reproduction	Life Science	2	2	Control Click for link
SC.2.L.17.2	Recognize and explain that living things are found all over Earth, but each is only able to live in habitats that meet its basic needs.	Science	Interdependence	Life Science	2	2	Control Click for link
SC.4.L.16.4	Compare and contrast the major stages in the life cycles of Florida plants and animals, such as those that undergo incomplete and complete metamorphosis, and flowering and nonflowering seed-bearing plants.	Science	Heredity and Reproduction	Life Science	4	2	Control Click for link

The Leaf-Miner League

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.5.L.17.1	Compare and contrast adaptations displayed by animals and plants that enable them to survive in different environments such as life cycles variations, animal behaviors and physical characteristics.	Science	Interdependence	Life Science	5	2	Control Click for link

The Leaf-Miner League

Lichens, We Love ‘em!

Lesson 27

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.K.N.1.2	Make observations of the natural world and know that they are descriptors collected using the five senses.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.K.N.1.5	Recognize that learning can come from careful observation.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.1.N.1.2	Using the five senses as tools, make careful observations, describe objects in terms of number, shape, texture, size, weight, color, and motion, and compare their observations with others.	Science	The Practice of Science	Nature of Science	1	2	Control Click for link
SC.2.N.1.1	Raise questions about the natural world, investigate them in teams through free exploration and systematic observations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	2	3	Control Click for link
SC.2.N.1.2	Compare the observations made by different groups using the same tools.	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.2.N.1.5	Distinguish between empirical observation (what you see, hear, feel, smell, or taste) and ideas or inferences (what you think).	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.3.N.1.2	Compare the observations made by different groups using the same tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link

Lichen, We Love ‘em!

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.3.N.1.3	Keep records as appropriate, such as pictorial, written, or simple charts and graphs, of investigations conducted.	Science	The Practice of Science	Nature of Science	3	2	Control Click for link
SC.3.N.1.6	Infer based on observation.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.3.N.1.7	Explain that empirical evidence is information, such as observations or measurements, that is used to help validate explanations of natural phenomena.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.4.N.1.2	Compare the observations made by different groups using multiple tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.4.N.1.3	Explain that science does not always follow a rigidly defined method ("the scientific method") but that science does involve the use of observations and empirical evidence.	Science	The Practice of Science	Nature of Science	4	2	Control Click for link
SC.4.N.1.6	Keep records that describe observations made, carefully distinguishing actual observations from ideas and inferences about the observations.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.5.N.1.6	Recognize and explain the difference between personal opinion/interpretation and verified observation.	Science	The Practice of Science	Nature of Science	5	2	Control Click for link

Lichen, We Love ‘em!

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.1.L.14.1	Make observations of living things and their environment using the five senses.	Science	Organization and Development of Living Organisms	Life Science	1	1	Control Click for link
SC.1.L.17.1	Through observation, recognize that all plants and animals, including humans, need the basic necessities of air, water, food, and space.	Science	Interdependence	Life Science	1	1	Control Click for link
SC.2.L 17.2	Recognize and explain that living things are found all over Earth, but each is only able to live in habitats that meet its basic needs.	Science	Interdependence	Life Science	2	2	Control Click for link
SC.4.L.17.4	Recognize ways plants and animals, including humans, can impact the environment.	Science	Interdependence	Life Science	4	3	Control Click for link

Lichen, We Love ‘em!

Will You “Bee” My Favorite Flower? Lesson 28

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.K.N.1.2	Make observations of the natural world and know that they are descriptors collected using the five senses.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.K.N.1.5	Recognize that learning can come from careful observation.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.1.N.1.2	Using the five senses as tools, make careful observations, describe objects in terms of number, shape, texture, size, weight, color, and motion, and compare their observations with others.	Science	The Practice of Science	Nature of Science	1	2	Control Click for link
SC.2.N.1.1	Raise questions about the natural world, investigate them in teams through free exploration and systematic observations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	2	3	Control Click for link
SC.2.N.1.2	Compare the observations made by different groups using the same tools.	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.2.N.1.5	Distinguish between empirical observation (what you see, hear, feel, smell, or taste) and ideas or inferences (what you think).	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.3.N.1.2	Compare the observations made by different groups using the same tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link

Will You “Bee” My Favorite Flower?

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.3.N.1.3	Keep records as appropriate, such as pictorial, written, or simple charts and graphs, of investigations conducted.	Science	The Practice of Science	Nature of Science	3	2	Control Click for link
SC.3.N.1.6	Infer based on observation.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.3.N.1.7	Explain that empirical evidence is information, such as observations or measurements, that is used to help validate explanations of natural phenomena.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.4.N.1.2	Compare the observations made by different groups using multiple tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.4.N.1.3	Explain that science does not always follow a rigidly defined method ("the scientific method") but that science does involve the use of observations and empirical evidence.	Science	The Practice of Science	Nature of Science	4	2	Control Click for link
SC.4.N.1.6	Keep records that describe observations made, carefully distinguishing actual observations from ideas and inferences about the observations.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.4.N.1.8	Recognize that science involves creativity in designing experiments.	Science	The Practice of Science	Nature of Science	4	2	Control Click for link

Will You “Bee” My Favorite Flower?

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.5.N.1.1	Define a problem, use appropriate reference materials to support scientific understanding, plan and carry out scientific investigations of various types such as: systematic observations, experiments requiring the identification of variables, collecting and organizing data, interpreting data in charts, tables, and graphics, analyze information, make predictions, and defend conclusions.	Science	The Practice of Science	Nature of Science	5	3	Control Click for link
SC.5.N.1.6	Recognize and explain the difference between personal opinion/interpretation and verified observation.	Science	The Practice of Science	Nature of Science	5	2	Control Click for link
SC.6.N.1.5	Recognize that science involves creativity, not just in designing experiments, but also in creating explanations that fit evidence.	Science	The Practice of Science	Nature of Science	6	2	Control Click for link
SC.1.L.14.1	Make observations of living things and their environment using the five senses.	Science	Organization and Development of Living Organisms	Life Science	1	1	Control Click for link
SC.1.L.17.1	Through observation, recognize that all plants and animals, including humans, need the basic necessities of air, water, food, and space.	Science	Interdependence	Life Science	1	1	Control Click for link
SC.4.L.16.3	Recognize that animal behaviors may be shaped by heredity and learning.	Science	Heredity and Reproduction	Life Science	4	3	Control Click for link

Will You “Bee” My Favorite Flower?

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.5.L.17.1	Compare and contrast adaptations displayed by animals and plants that enable them to survive in different environments such as life cycles variations, animal behaviors and physical characteristics.	Science	Interdependence	Life Science	5	2	Control Click for link

Will You “Bee” My Favorite Flower?

All in the Daisy Family

Lesson 29

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.K.N.1.2	Make observations of the natural world and know that they are descriptors collected using the five senses.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.K.N.1.5	Recognize that learning can come from careful observation.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.1.N.1.2	Using the five senses as tools, make careful observations, describe objects in terms of number, shape, texture, size, weight, color, and motion, and compare their observations with others.	Science	The Practice of Science	Nature of Science	1	2	Control Click for link
SC.2.N.1.1	Raise questions about the natural world, investigate them in teams through free exploration and systematic observations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	2	3	Control Click for link
SC.2.N.1.2	Compare the observations made by different groups using the same tools.	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.2.N.1.5	Distinguish between empirical observation (what you see, hear, feel, smell, or taste) and ideas or inferences (what you think).	Science	The Practice of Science	Nature of Science	2	2	Control Click for link

All in the Daisy Family

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.3.N.1.1	Raise questions about the natural world, investigate them individually and in teams through free exploration and systematic investigations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.3.N.1.2	Compare the observations made by different groups using the same tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.3.N.1.3	Keep records as appropriate, such as pictorial, written, or simple charts and graphs, of investigations conducted.	Science	The Practice of Science	Nature of Science	3	2	Control Click for link
SC.3.N.1.6	Infer based on observation.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.3.N.1.7	Explain that empirical evidence is information, such as observations or measurements, that is used to help validate explanations of natural phenomena.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.4.N.1.1	Raise questions about the natural world, use appropriate reference materials that support understanding to obtain information (identifying the source), conduct both individual and team investigations through free exploration and systematic investigations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link

All in the Daisy Family

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.4.N.1.3	Explain that science does not always follow a rigidly defined method ("the scientific method") but that science does involve the use of observations and empirical evidence.	Science	The Practice of Science	Nature of Science	4	2	Control Click for link
SC.4.N.1.6	Keep records that describe observations made, carefully distinguishing actual observations from ideas and inferences about the observations.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.5.N.1.5	Recognize and explain that authentic scientific investigation frequently does not parallel the steps of "the scientific method."	Science	The Practice of Science	Nature of Science	5	2	Control Click for link
SC.5.N.1.6	Recognize and explain the difference between personal opinion/interpretation and verified observation.	Science	The Practice of Science	Nature of Science	5	2	Control Click for Link
SC.1.L.14.1	Make observations of living things and their environment using the five senses.	Science	Organization and Development of Living Organisms	Life Science	1	1	Control Click for link
SC.5.L.17.1	Compare and contrast adaptations displayed by animals and plants that enable them to survive in different environments such as life cycles variations, animal behaviors and physical characteristics.	Science	Interdependence	Life Science	5	2	Control Click for link

All in the Daisy Family

Mushroom Rally

Lesson 30

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.K.N.1.2	Make observations of the natural world and know that they are descriptors collected using the five senses.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.K.N.1.5	Recognize that learning can come from careful observation.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.1.N.1.2	Using the five senses as tools, make careful observations, describe objects in terms of number, shape, texture, size, weight, color, and motion, and compare their observations with others.	Science	The Practice of Science	Nature of Science	1	2	Control Click for link
SC.2.N.1.1	Raise questions about the natural world, investigate them in teams through free exploration and systematic observations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	2	3	Control Click for link
SC.2.N.1.5	Distinguish between empirical observation (what you see, hear, feel, smell, or taste) and ideas or inferences (what you think).	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.3.N.1.3	Keep records as appropriate, such as pictorial, written, or simple charts and graphs, of investigations conducted.	Science	The Practice of Science	Nature of Science	3	2	Control Click to link

Mushroom Rally

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.3.N.1.6	Infer based on observation.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.3.N.1.7	Explain that empirical evidence is information, such as observations or measurements, that is used to help validate explanations of natural phenomena.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.4.N.1.3	Explain that science does not always follow a rigidly defined method ("the scientific method") but that science does involve the use of observations and empirical evidence.	Science	The Practice of Science	Nature of Science	4	2	Control Click for link
SC.4.N.1.6	Keep records that describe observations made, carefully distinguishing actual observations from ideas and inferences about the observations.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.5.N.1.6	Recognize and explain the difference between personal opinion/interpretation and verified observation.	Science	The Practice of Science	Nature of Science	5	2	Control Click for Link
SC.1.L.14.1	Make observations of living things and their environment using the five senses.	Science	Organization and Development of Living Organisms	Life Science	1	1	Control Click for link
SC.1.L.17.1	Through observation, recognize that all plants and animals, including humans, need the basic necessities of air, water, food, and space.	Science	Interdependence	Life Science	1	1	Control Click for link
SC.2.L.16.1	Observe and describe major stages in the life cycles of plants and animals, including beans and butterflies.	Science	Heredity and Reproduction	Life Science	2	2	Control Click for link

Mushroom Rally

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.2.L.17.2	Recognize and explain that living things are found all over Earth, but each is only able to live in habitats that meet its basic needs.	Science	Interdependence	Life Science	2	2	Control Click for link
SC.3.L.14.1	Describe structures in plants and their roles in food production, support, water and nutrient transport, and reproduction.	Science	Organization and Development of Living Organisms	Life Science	3	2	Control Click for link
SC.3.L.15.2	Classify flowering and nonflowering plants into major groups such as those that produce seeds, or those like ferns and mosses that produce spores, according to their physical characteristics.	Science	Organization and Development of Living Organisms	Life Science	3	2	Control Click for link
SC.4.L.16.4	Compare and contrast the major stages in the life cycles of Florida plants and animals, such as those that undergo incomplete and complete metamorphosis, and flowering and nonflowering seed-bearing plants.	Science	Heredity and Reproduction	Life Science	4	2	Control Click for link
SC.4.L.17.4	Recognize ways plants and animals, including humans, can impact the environment.	Science	Interdependence	Life Science	4	3	Control Click for link
SC.5.L.17.1	Compare and contrast adaptations displayed by animals and plants that enable them to survive in different environments such as life cycles variations, animal behaviors and physical characteristics.	Science	Interdependence	Life Science	5	2	Control Click for link

Mushroom Rally

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.4.P.9.1	Identify some familiar changes in materials that result in other materials with different characteristics, such as decaying animal or plant matter, burning, rusting, and cooking.	Science	Changes in Matter	Physical Science	4	1	Control Click for link

Mushroom Rally

A Real Scavenger Hunt

Lesson 31

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.K.N.1.2	Make observations of the natural world and know that they are descriptors collected using the five senses.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.K.N.1.5	Recognize that learning can come from careful observation.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.2.N.1.1	Raise questions about the natural world, investigate them in teams through free exploration and systematic observations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	2	3	Control Click for link
SC.1.N.1.2	Using the five senses as tools, make careful observations, describe objects in terms of number, shape, texture, size, weight, color, and motion, and compare their observations with others.	Science	The Practice of Science	Nature of Science	1	2	Control Click for link
SC.2.N.1.1	Raise questions about the natural world, investigate them in teams through free exploration and systematic observations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	2	3	Control Click for link
SC.2.N.1.2	Compare the observations made by different groups using the same tools.	Science	The Practice of Science	Nature of Science	2	2	Control Click for link

A Real Scavenger Hunt

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.2.N.1.5	Distinguish between empirical observation (what you see, hear, feel, smell, or taste) and ideas or inferences (what you think).	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.3.N.1.1	Raise questions about the natural world, investigate them individually and in teams through free exploration and systematic investigations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.3.N.1.2	Compare the observations made by different groups using the same tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.3.N.1.3	Keep records as appropriate, such as pictorial, written, or simple charts and graphs, of investigations conducted.	Science	The Practice of Science	Nature of Science	3	2	Control Click to link
SC.3.N.1.6	Infer based on observation.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.3.N.1.7	Explain that empirical evidence is information, such as observations or measurements, that is used to help validate explanations of natural phenomena.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link

A Real Scavenger Hunt

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.4.N.1.1	Raise questions about the natural world, use appropriate reference materials that support understanding to obtain information (identifying the source), conduct both individual and team investigations through free exploration and systematic investigations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.4.N.1.2	Compare the observations made by different groups using multiple tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.4.N.1.3	Explain that science does not always follow a rigidly defined method ("the scientific method") but that science does involve the use of observations and empirical evidence.	Science	The Practice of Science	Nature of Science	4	2	Control Click for link
SC.4.N.1.6	Keep records that describe observations made, carefully distinguishing actual observations from ideas and inferences about the observations.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.4.N.1.8	Recognize that science involves creativity in designing experiments.	Science	The Practice of Science	Nature of Science	4	2	Control Click for link

A Real Scavenger Hunt

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.5.N.1.1	Define a problem, use appropriate reference materials to support scientific understanding, plan and carry out scientific investigations of various types such as: systematic observations, experiments requiring the identification of variables, collecting and organizing data, interpreting data in charts, tables, and graphics, analyze information, make predictions, and defend conclusions.	Science	The Practice of Science	Nature of Science	5	3	Control Click for link
SC.5.N.1.2	Explain the difference between an experiment and other types of scientific investigation.	Science	The Practice of Science	Nature of Science	5	2	Control Click for link
SC.5.N.1.5	Recognize and explain that authentic scientific investigation frequently does not parallel the steps of "the scientific method."	Science	The Practice of Science	Nature of Science	5	2	Control Click for link
SC.5.N.1.6	Recognize and explain the difference between personal opinion/interpretation and verified observation.	Science	The Practice of Science	Nature of Science	5	2	Control Click for Link
SC.5.N.2.1	Recognize and explain that science is grounded in empirical observations that are testable; explanation must always be linked with evidence.	Science	The Characteristics of Scientific Knowledge	Nature of Science	5	2	Control Click for link
SC.6.N.1.5	Recognize that science involves creativity, not just in designing experiments, but also in creating explanations that fit evidence.	Science	The Practice of Science	Nature of Science	6	2	Control Click for link

A Real Scavenger Hunt

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.1.L.14.1	Make observations of living things and their environment using the five senses.	Science	Organization and Development of Living Organisms	Life Science	1	1	Control Click for link
SC.1.L.17.1	Through observation, recognize that all plants and animals, including humans, need the basic necessities of air, water, food, and space.	Science	Interdependence	Life Science	1	1	Control Click for link
SC.2.L.17.1	Compare and contrast the basic needs that all living things, including humans, have for survival.	Science	Intercedence	Life Science	2	2	Control Click for link
SC.2.L.17.2	Recognize and explain that living things are found all over Earth, but each is only able to live in habitats that meet its basic needs.	Science	Interdependence	Life Science	2	2	Control Click for link
SC.4.L.16.2	Explain that although characteristics of plants and animals are inherited, some characteristics can be affected by the environment.	Science	Heredity and Reproduction	Life Science	4	3	Control Click for link
SC.4.L.17.4	Recognize ways plants and animals, including humans, can impact the environment.	Science	Interdependence	Life Science	4	3	Control Click for link
SC.5.L.17.1	Compare and contrast adaptations displayed by animals and plants that enable them to survive in different environments such as life cycles variations, animal behaviors and physical characteristics.	Science	Interdependence	Life Science	5	2	Control Click for link

A Real Scavenger Hunt

Look Out for the Mob

Lesson 32

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.K.N.1.2	Make observations of the natural world and know that they are descriptors collected using the five senses.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.K.N.1.5	Recognize that learning can come from careful observation.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.1.N.1.2	Using the five senses as tools, make careful observations, describe objects in terms of number, shape, texture, size, weight, color, and motion, and compare their observations with others.	Science	The Practice of Science	Nature of Science	1	2	Control Click for link
SC.2.N.1.1	Raise questions about the natural world, investigate them in teams through free exploration and systematic observations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	2	3	Control Click for link
SC.2.N.1.5	Distinguish between empirical observation (what you see, hear, feel, smell, or taste) and ideas or inferences (what you think).	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.3.N.1.6	Infer based on observation.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.3.N.1.7	Explain that empirical evidence is information, such as observations or measurements, that is used to help validate explanations of natural phenomena.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link

Look Out for the Mob

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.4.N.1.3	Explain that science does not always follow a rigidly defined method ("the scientific method") but that science does involve the use of observations and empirical evidence.	Science	The Practice of Science	Nature of Science	4	2	Control Click for link
SC.5.N.1.1	Define a problem, use appropriate reference materials to support scientific understanding, plan and carry out scientific investigations of various types such as: systematic observations, experiments requiring the identification of variables, collecting and organizing data, interpreting data in charts, tables, and graphics, analyze information, make predictions, and defend conclusions.	Science	The Practice of Science	Nature of Science	5	3	Control Click for link
SC.5.N.1.6	Recognize and explain the difference between personal opinion/interpretation and verified observation.	Science	The Practice of Science	Nature of Science	5	2	Control Click for link
SC.1.L.14.1	Make observations of living things and their environment using the five senses.	Science	Organization and Development of Living Organisms	Life Science	1	1	Control Click for link
SC.3.L.17.1	Describe how animals and plants respond to changing seasons.	Science	Interdependence	Life Science	3	2	Control Click for link
SC.4.L.16.3	Recognize that animal behaviors may be shaped by heredity and learning.	Science	Heredity and Reproduction	Life Science	4	3	Control Click for link

Look Out for the Mob

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.5.L.17.1	Compare and contrast adaptations displayed by animals and plants that enable them to survive in different environments such as life cycles variations, animal behaviors and physical characteristics.	Science	Interdependence	Life Science	5	2	Control Click for link

Look Out for the Mob

Palm Boots, Hot and Cold

Lesson 33

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.K.N.1.2	Make observations of the natural world and know that they are descriptors collected using the five senses.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.K.N.1.5	Recognize that learning can come from careful observation.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.1.N.1.1	Raise questions about the natural world, investigate them in teams through free exploration, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	1	3	Control Click for link
SC.1.N.1.2	Using the five senses as tools, make careful observations, describe objects in terms of number, shape, texture, size, weight, color, and motion, and compare their observations with others.	Science	The Practice of Science	Nature of Science	1	2	Control Click for link
SC.2.N.1.1	Raise questions about the natural world, investigate them in teams through free exploration and systematic observations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	2	3	Control Click for link
SC.2.N.1.2	Compare the observations made by different groups using the same tools.	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.2.N.1.5	Distinguish between empirical observation (what you see, hear, feel, smell, or taste) and ideas or inferences (what you think).	Science	The Practice of Science	Nature of Science	2	2	Control Click for link

Palm Boots, Hot and Cold

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.3.N.1.1	Raise questions about the natural world, investigate them individually and in teams through free exploration and systematic investigations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.3.N.1.2	Compare the observations made by different groups using the same tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.3.N.1.3	Keep records as appropriate, such as pictorial, written, or simple charts and graphs, of investigations conducted.	Science	The Practice of Science	Nature of Science	3	2	Control Click to link
SC.3.N.1.6	Infer based on observation.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.3.N.1.7	Explain that empirical evidence is information, such as observations or measurements, that is used to help validate explanations of natural phenomena.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.4.N.1.2	Compare the observations made by different groups using multiple tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.4.N.1.3	Explain that science does not always follow a rigidly defined method ("the scientific method") but that science does involve the use of observations and empirical evidence.	Science	The Practice of Science	Nature of Science	4	2	Control Click for link

Palm Boots, Hot and Cold

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.4.N.1.4	Attempt reasonable answers to scientific questions and cite evidence in support.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.4.N.1.6	Keep records that describe observations made, carefully distinguishing actual observations from ideas and inferences about the observations.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.4.N.1.7	Recognize and explain that scientists base their explanations on evidence.	Science	The Practice of Science	Nature of Science	4	2	Control Click for link
SC.5.N.1.1	Define a problem, use appropriate reference materials to support scientific understanding, plan and carry out scientific investigations of various types such as: systematic observations, experiments requiring the identification of variables, collecting and organizing data, interpreting data in charts, tables, and graphics, analyze information, make predictions, and defend conclusions.	Science	The Practice of Science	Nature of Science	5	3	Control Click for link
SC.5.N.1.5	Recognize and explain that authentic scientific investigation frequently does not parallel the steps of "the scientific method."	Science	The Practice of Science	Nature of Science	5	2	Control Click for link
SC.5.N.1.6	Recognize and explain the difference between personal opinion/interpretation and verified observation.	Science	The Practice of Science	Nature of Science	5	2	Control Click for link
SC.1.L.14.1	Make observations of living things and their environment using the five senses.	Science	Organization and Development of Living Organisms	Life Science	1	1	Control Click for link

Palm Boots, Hot and Cold

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.1.L.17.1	Through observation, recognize that all plants and animals, including humans, need the basic necessities of air, water, food, and space.	Science	Interdependence	Life Science	1	1	Control Click for link
SC.2.L.16.1	Observe and describe major stages in the life cycles of plants and animals, including beans and butterflies.	Science	Heredity and Reproduction	Life Science	2	2	Control Click for link
SC.2.L.17.1	Compare and contrast the basic needs that all living things, including humans, have for survival.	Science	Interdependence	Life Science	2	2	Control Click for link
SC.2.L.17.2	Recognize and explain that living things are found all over Earth, but each is only able to live in habitats that meet its basic needs.	Science	Interdependence	Life Science	2	2	Control Click for link
SC.5.L.17.1	Compare and contrast adaptations displayed by animals and plants that enable them to survive in different environments such as life cycles variations, animal behaviors and physical characteristics.	Science	Interdependence	Life Science	5	2	Control Click for link
SC.5.E.7.5	Recognize that some of the weather-related differences, such as temperature and humidity, are found among different environments, such as swamps, deserts, and mountains.	Science	Earth Systems and Patterns	Earth and Space Science	5	2	Control Click for link

Palm Boots, Hot and Cold

Litterbugs

Lesson 34

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.K.N.1.2	Make observations of the natural world and know that they are descriptors collected using the five senses.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.K.N.1.5	Recognize that learning can come from careful observation.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.1.N.1.2	Using the five senses as tools, make careful observations, describe objects in terms of number, shape, texture, size, weight, color, and motion, and compare their observations with others.	Science	The Practice of Science	Nature of Science	1	2	Control Click for link
SC.2.N.1.1	Raise questions about the natural world, investigate them in teams through free exploration and systematic observations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	2	3	Control Click for link
SC.2.N.1.2	Compare the observations made by different groups using the same tools.	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.2.N.1.5	Distinguish between empirical observation (what you see, hear, feel, smell, or taste) and ideas or inferences (what you think).	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.3.N.1.2	Compare the observations made by different groups using the same tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link

Litterbugs

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.3.N.1.3	Keep records as appropriate, such as pictorial, written, or simple charts and graphs, of investigations conducted.	Science	The Practice of Science	Nature of Science	3	2	Control Click for link
SC.3.N.1.5	Recognize that scientists question, discuss, and check each other's evidence and explanations.	Science	The Practice of Science	Nature of Science	3	2	Control Click for link
SC.3.N.1.6	Infer based on observation.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.3.N.1.7	Explain that empirical evidence is information, such as observations or measurements, that is used to help validate explanations of natural phenomena.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.4.N.1.2	Compare the observations made by different groups using multiple tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.4.N.1.3	Explain that science does not always follow a rigidly defined method ("the scientific method") but that science does involve the use of observations and empirical evidence.	Science	The Practice of Science	Nature of Science	4	2	Control Click for link
SC.4.N.1.6	Keep records that describe observations made, carefully distinguishing actual observations from ideas and inferences about the observations.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link

Litterbugs

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.5.N.1.1	Define a problem, use appropriate reference materials to support scientific understanding, plan and carry out scientific investigations of various types such as: systematic observations, experiments requiring the identification of variables, collecting and organizing data, interpreting data in charts, tables, and graphics, analyze information, make predictions, and defend conclusions.	Science	The Practice of Science	Nature of Science	5	3	Control Click for link
SC.5.N.1.5	Recognize and explain that authentic scientific investigation frequently does not parallel the steps of "the scientific method."	Science	The Practice of Science	Nature of Science	5	2	Control Click for link
SC.5.N.1.6	Recognize and explain the difference between personal opinion/interpretation and verified observation.	Science	The Practice of Science	Nature of Science	5	2	Control Click for link
SC.1.L.14.1	Make observations of living things and their environment using the five senses.	Science	Organization and Development of Living Organisms	Life Science	1	1	Control Click for link
SC.1.L.17.1	Through observation, recognize that all plants and animals, including humans, need the basic necessities of air, water, food, and space.	Science	Interdependence	Life Science	1	1	Control Click for link
SC.2.L.17.2	Recognize and explain that living things are found all over Earth, but each is only able to live in habitats that meet its basic needs.	Science	Interdependence	Life Science	2	2	Control Click for link

Litterbugs

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.4.L.16.2	Explain that although characteristics of plants and animals are inherited, some characteristics can be affected by the environment.	Science	Heredity and Reproduction	Life Science	4	3	Control Click for link
SC.5.L.17.1	Compare and contrast adaptations displayed by animals and plants that enable them to survive in different environments such as life cycles variations, animal behaviors and physical characteristics.	Science	Interdependence	Life Science	5	2	Control Click for link

Litterbugs

Pitfalls in Ecology

Lesson 35

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.K.N.1.2	Make observations of the natural world and know that they are descriptors collected using the five senses.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.K.N.1.5	Recognize that learning can come from careful observation.	Science	The Practice of Science	Nature of Science	K	2	Control Click for link
SC.1.N.1.1	Raise questions about the natural world, investigate them in teams through free exploration, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	1	3	Control Click for link
SC.1.N.1.2	Using the five senses as tools, make careful observations, describe objects in terms of number, shape, texture, size, weight, color, and motion, and compare their observations with others.	Science	The Practice of Science	Nature of Science	1	2	Control Click for link
SC.2.N.1.1	Raise questions about the natural world, investigate them in teams through free exploration and systematic observations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	2	3	Control Click for link
SC.2.N.1.2	Compare the observations made by different groups using the same tools.	Science	The Practice of Science	Nature of Science	2	2	Control Click for link
SC.2.N.1.5	Distinguish between empirical observation (what you see, hear, feel, smell, or taste) and ideas or inferences (what you think).	Science	The Practice of Science	Nature of Science	2	2	Control Click for link

Pitfalls in Ecology

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.3.N.1.1	Raise questions about the natural world, investigate them individually and in teams through free exploration and systematic investigations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.3.N.1.2	Compare the observations made by different groups using the same tools and seek reasons to explain the differences across groups.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.3.N.1.3	Keep records as appropriate, such as pictorial, written, or simple charts and graphs, of investigations conducted.	Science	The Practice of Science	Nature of Science	3	2	Control Click to link
SC.3.N.1.6	Infer based on observation.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.3.N.1.7	Explain that empirical evidence is information, such as observations or measurements, that is used to help validate explanations of natural phenomena.	Science	The Practice of Science	Nature of Science	3	3	Control Click for link
SC.4.N.1.1	Raise questions about the natural world, use appropriate reference materials that support understanding to obtain information (identifying the source), conduct both individual and team investigations through free exploration and systematic investigations, and generate appropriate explanations based on those explorations.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link

Pitfalls in Ecology

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.4.N.1.3	Explain that science does not always follow a rigidly defined method ("the scientific method") but that science does involve the use of observations and empirical evidence.	Science	The Practice of Science	Nature of Science	4	2	Control Click for link
SC.4.N.1.4	Attempt reasonable answers to scientific questions and cite evidence in support.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.4.N.1.6	Keep records that describe observations made, carefully distinguishing actual observations from ideas and inferences about the observations.	Science	The Practice of Science	Nature of Science	4	3	Control Click for link
SC.5.N.1.1	Define a problem, use appropriate reference materials to support scientific understanding, plan and carry out scientific investigations of various types such as: systematic observations, experiments requiring the identification of variables, collecting and organizing data, interpreting data in charts, tables, and graphics, analyze information, make predictions, and defend conclusions.	Science	The Practice of Science	Nature of Science	5	3	Control Click for link
SC.5.N.1.6	Recognize and explain the difference between personal opinion/interpretation and verified observation.	Science	The Practice of Science	Nature of Science	5	2	Control Click for link
SC.6.N.1.5	Recognize that science involves creativity, not just in designing experiments, but also in creating explanations that fit evidence.	Science	The Practice of Science	Nature of Science	6	2	Control Click for link

Pitfalls in Ecology

Benchmark	Description	Subject	Idea/Standard	Body Of Knowledge/ Strand	Grade	Level of Complexity	C-Palms Link
SC.1.L.14.1	Make observations of living things and their environment using the five senses.	Science	Organization and Development of Living Organisms	Life Science	1	1	Control Click for link
SC.1.L.17.1	Through observation, recognize that all plants and animals, including humans, need the basic necessities of air, water, food, and space.	Science	Interdependence	Life Science	1	1	Control Click for link
SC.2.L.17.2	Recognize and explain that living things are found all over Earth, but each is only able to live in habitats that meet its basic needs.	Science	Interdependence	Life Science	2	2	Control Click for link
SC.5.L.17.1	Compare and contrast adaptations displayed by animals and plants that enable them to survive in different environments such as life cycles variations, animal behaviors and physical characteristics.	Science	Interdependence	Life Science	5	2	Control Click for link

Pitfalls in Ecology