SRA Snapshots Simply Science $^{\mathrm{TM}}$ correlation to New York Science Core Curriculum Grade 1

SRA Snapshots Simply ScienceTM consists of several components. Each level has Simply Science Video lessons (Video) that provide an introduction to or review of the unit science concepts. The Fiction Read Alouds (RAF) and Nonfiction Read Alouds (RANF) provide student friendly text that reinforces the science concepts in the video. The Teacher's Idea Book (TIB) provides quick lesson activities and reproducible pages (BLM). The Vocabulary Photo Cards (Cards) contain engaging photos, definitions, and additional activities.

KEY:
Program Component
Video lessons
Read Aloud - Fiction
Read Aloud - Nonfiction
Teacher's Idea Book
Reproducible pages
Vocabulary Photo Cards

SRA Snapshots Simply Scien	
Life Science Unit 1: Living Th	nings and Their Needs
Program Components	New York Science Core Curriculum
Video Living Things and Their	Standard 4: The Living Environment

Program Components	New York Science Core Curriculum
Video Living Things and Their	Standard 4: The Living Environment
Needs	Key Idea 1: Living things are both similar to and different from each other and
RAF "A Funny Frog"	from nonliving things.
RANF "We Are Living Things"	Performance Indicator 1.1: Describe the characteristics of and variations between
TIB pages 14, 15, 16, 17, 18, 19	living and nonliving things.
BLM pages 70, 71, 72, 73, 74, 75,	Major Understandings:
76, 77, 78, 79	1.1a Animals need air, water, and food in order to live and thrive.
Cards 1, 2, 3, 4, 5, 6, 55, 56, 57, 60,	1.1b Plants require air, water, nutrients, and light in order to live and thrive.
61, 63, 64, 65, 67, 68, 69, 70, 71, 72,	1.1c Nonliving things do not live and thrive.
73, 74, 75, 76, 77, 78, 79, 80, 81, 82,	1.1d Nonliving things can be human-created or naturally occurring.
83, 84, 85, 86, 87, 88, 89, 90	
	Performance Indicator 1.2: Describe the life processes common to all living
	things.
	Major Understandings:
	1.2a Living things grow, take in nutrients, breathe, reproduce, eliminate waste, and die.

Life Science Unit 1 (continue	d)
Program Components	New York Science Core Curriculum
TIB page 19, Hands-On Science Activity Group Living/Nonliving Things	Standard 1: Analysis, Inquiry, and Design Scientific Inquiry Key Idea 1: The central purpose of scientific inquiry is to develop explanations of natural phenomena in a continuing, creative process. S1.1 Ask "why" questions in attempts to seek greater understanding concerning objects and events they have observed and heard about. S1.1a Observe and discuss objects and events and record observations. Key Idea 2: Beyond the use of reasoning and consensus, scientific inquiry involves the testing of proposed explanations involving the use of conventional techniques and procedures and usually requiring considerable ingenuity. S2.3 Carry out their plans for exploring phenomena through direct observation and through the use of simple instruments that permit measurement of quantities, such as length, mass, volume, temperature, and time. S2.3b Record observations accurately and concisely. General Skills i. follow safety procedures in the classroom, laboratory, and field. x. classify objects according to an established scheme. xi. generate a scheme for classification. xii. utilize senses optimally for making observations. xx. compare and contrast organisms/objects/events in the living and physical environments.

SRA Snapshots Simply ScienceTM Grade 1 Life Science Unit 2: Learning About Plants

Program Components	New York Science Core Curriculum
Video Learning About Plants RAF "Which Way to Sprout?" RANF "Plants Are Living Things" TIB pages 20, 21, 22, 23, 24, 25 BLM pages 80, 81, 82, 83, 84, 85, 86, 87, 88, 89 Cards 7, 8, 9, 10, 11, 12, 55, 56, 69, 81, 84, 87, 88	Standard 4: The Living Environment Key Idea 3: Individual Organisms and species change over time. Performance Indicator 3.1: Describe how the structure of plants and animals complement different functions in growth. Major Understandings: 3.1b each plant has different structures that serve different functions in growth, survival, and reproduction. • Roots help support the plant and take in water and nutrients • Leaves help plants utilize sunlight to make food for the plant • Stems, stalks, trunks, and other similar structures provide support for the plant • Some plants have flowers • Flowers are reproductive structures of plants that produce fruit which contains seeds • Seeds contain stored food that aids in germination and the growth of young
	Performance Indicator 4.1: Describe the major life stages in the life cycles of selected plants and animals. Major Understandings: 4.1a Plants and animals have life cycles. These may include beginning of a life, development into an adult, reproduction as an adult, and eventually death. 4.1b Each kind of plant goes through its own stages of growth and the development that may include seed, young plant, and mature plant. 4.1c The length of time from beginning of development to death of the plant is called its life span. 4.1d Life cycles of some plants include changes from seed to mature plant.

Life Science Unit 2 (continued)	
Program Components	New York Science Core Curriculum
TIB page 25, Hands-On Science Activity Looking at Plant Parts	Standard 1: Analysis, Inquiry, and Design Scientific Inquiry Key Idea 1: The central purpose of scientific inquiry is to develop explanations of natural phenomena in a continuing, creative process. S1.1 Ask "why" questions in attempts to seek greater understanding concerning objects and events they have observed and heard about. S1.1a Observe and discuss objects and events and record observations. Key Idea 2: Beyond the use of reasoning and consensus, scientific inquiry involves the testing of proposed explanations involving the use of conventional techniques and procedures and usually requiring considerable ingenuity. S2.3 Carry out their plans for exploring phenomena through direct observation and through the use of simple instruments that permit measurement of quantities, such as length, mass, volume, temperature, and time. S2.3b Record observations accurately and concisely.
	General Skills i. follow safety procedures in the classroom, laboratory, and field. xii. utilize senses optimally for making observations. xiii. observe, analyze, and report observations of objects and events.

SRA Snapshots Simply ScienceTM Grade 1 Life Science Unit 3: Habitats Are Everywhere

Video Habitats Are Everywhere RAF "A Home for Maggie" RANF "A Habitat Is a Home" TIB pages 26, 27, 28, 29, 30, 31 BLM pages 90, 91, 92, 93, 94, 95, 96, 97, 98, 99 Cards 13, 14, 15, 16, 17, 18, 19, 66, 75, 82 Standard 4: The Living Environment Seeds disperse by a plant's own mechanism and/or in a variety of ways that can include wind, water, and animals Leaf, flower, stem, and root adaptations may include variations in size, shape, thickness, color, smell, and texture Animal adaptations include coloration for warning or attraction, camouflage, defense mechanisms, movement, hibernation, and migration. Key Idea 5: Organisms maintain a dynamic equilibrium that sustains life. Performance Indicator 5.1: Describe basic life functions of common living specimens (e.g., guppies, mealworms, gerbils). Major understandings: 5.1b An organism's external physical features can enable it to carry out life functions in its particular environment. Performance Indicator 5.2: Describe some survival behaviors of common living specimens. Major Understandings: 5.2a Plants respond to changes in their environment. For example, the leaves of some green plants change position as the direction of light changes; the parts of some plants undergo seasonal changes that enable the plant to grow; seeds germinate, and leaves form and grow. 5.2f Some animal behaviors are influenced by environmental conditions. These behaviors may include: nest building, hibernating, hunting, migrating, and communicating. 5.2g The health, growth, and development of organisms are affected by environmental conditions such as the availability of food, air, water, space, shelter, heat, and sunlight.	Program Components	New York Science Core Curriculum
Performance Indicator 6.1: Describe how plants and animals, including humans, depend upon each other and the nonliving environment. Major Understandings: 6.1a Green plants are producers because they provide the basic food supply for themselves and animals. 6.1b All animals depend on plants. Some animals (predators) eat other animals (prey). 6.1c Animals that eat plants for food may in turn become food for other animals. This sequence is called a food chain. 6.1e An organism's pattern of behavior is related to the nature of that organism's	Video Habitats Are Everywhere RAF "A Home for Maggie" RANF "A Habitat Is a Home" TIB pages 26, 27, 28, 29, 30, 31 BLM pages 90, 91, 92, 93, 94, 95, 96, 97, 98, 99 Cards 13, 14, 15, 16, 17, 18, 19, 66,	Standard 4: The Living Environment Key Idea 3: Individual Organisms and species change over time. Performance Indicator 3.1: Describe how the structure of plants and animals complement different functions in growth. Major Understandings: 3.1c In order to survive in their environment, plants and animals must be adapted to that environment. • Seeds disperse by a plant's own mechanism and/or in a variety of ways that can include wind, water, and animals • Leaf, flower, stem, and root adaptations may include variations in size, shape, thickness, color, smell, and texture • Animal adaptations include coloration for warning or attraction, camouflage, defense mechanisms, movement, hibernation, and migration. Key Idea 5: Organisms maintain a dynamic equilibrium that sustains life. Performance Indicator 5.1: Describe basic life functions of common living specimens (e.g., guppies, mealworms, gerbils). Major understandings: 5.1b An organism's external physical features can enable it to carry out life functions in its particular environment. Performance Indicator 5.2: Describe some survival behaviors of common living specimens. Major Understandings: 5.2a Plants respond to changes in their environment. For example, the leaves of some green plants change position as the direction of light changes; the parts of some plants undergo seasonal changes that enable the plant to grow; seeds germinate, and leaves form and grow. 5.2f Some animal behaviors are influenced by environmental conditions. These behaviors may include: nest building, hibernating, hunting, migrating, and communicating. 5.2g The health, growth, and development of organisms are affected by environmental conditions such as the availability of food, air, water, space, shelter, heat, and sunlight. Key Idea 6: Plants and animals depend on each other and their physical environment. Performance Indicator 6.1: Describe how plants and animals, including humans, depend upon each other and the nonliving environment. Performance Indicator 6.2: Describe the relation

Life Science Unit 3 (continued)	
Program Components	New York Science Core Curriculum
TIB page 31, Hands-On Science Activity <i>Habitat Mobiles</i>	Standard 1: Analysis, Inquiry, and Design Scientific Inquiry Key Idea 1: The central purpose of scientific inquiry is to develop explanations of natural phenomena in a continuing, creative process. S1.1 Ask "why" questions in attempts to seek greater understanding concerning objects and events they have observed and heard about. S1.1a Observe and discuss objects and events and record observations.
	General Skills ix. order and sequence objects and/or events
	xiii. observe, analyze, and report observations of objects and events.

SRA Snapshots Simply ScienceTM Grade 1 Earth Science Unit 4: Learning About Earth's Surface

Program Components	New York Science Core Curriculum
Video Learning About Earth's	Standard 4: The Physical Setting
Surface	Key Idea 2: Many of the phenomena that we observe on Earth involve
RAF "A Big Difference"	interactions among components of air, water, and land.
RANF "Earth's Many Resources"	Performance Indicator 2.1: Describe the relationship among air, water, and land
TIB pages 32, 33, 34, 35, 36, 37	on Earth.
BLM pages 100, 101, 102, 103,	Major Understandings:
104, 105, 106, 107, 108, 109	2.1d Erosion and deposition result from the interaction among air, water, and land.
Cards 19, 20, 21, 22, 23, 24, 75, 82,	 Interaction between air and water breaks down earth materials
85, 90	 Pieces of earth materials may be moved by air, water, wind, and gravity
	 Pieces of earth material will settle or deposit on land or in the water in
	different places
	 Soil is composed of broken-down pieces of living and nonliving earth
	material.
TIB page 37 Hands-On Science	Standard 1: Analysis, Inquiry, and Design
Activity What Comes from Earth's	Scientific Inquiry
Surface?	Key Idea 1: The central purpose of scientific inquiry is to develop explanations of
	natural phenomena in a continuing, creative process.
	S1.1 Ask "why" questions in attempts to seek greater understanding concerning
	objects and events they have observed and heard about.
	S1.1a Observe and discuss objects and events and record observations.
	Key Idea 2: Beyond the use of reasoning and consensus, scientific inquiry involves
	the testing of proposed explanations involving the use of conventional techniques
	and procedures and usually requiring considerable ingenuity.
	S2.3 Carry out their plans for exploring phenomena through direct observation
	and through the use of simple instruments that permit measurement of quantities,
	such as length, mass, volume, temperature, and time.
	S2.3b Record observations accurately and concisely.
	General Skills
	i. follow safety procedures in the classroom, laboratory, and field.
	x. classify objects according to an established scheme.
	xii. utilize senses optimally for making observations.

xiii. observe, analyze, and report observations of objects and events.

SRA Snapshots Simply Science TM	Grade 1
Earth Science Unit 5: Weather on	Earth

Program Components	New York Science Core Curriculum
Video Weather on Earth	Standard 4: The Physical Setting
RAF "A Leaf's Story"	Key Idea 2: Many of the phenomena that we observe on Earth involve
RANF "All About Weather!"	interactions among components of air, water, and land.
TIB pages 38, 39, 40, 41, 42, 43	Performance Indicator 2.1: Describe the relationship among air, water, and land
BLM pages 110, 111, 112, 113,	on Earth.
114, 115, 116, 117, 118, 119	Major Understandings:
Cards 25, 26, 27, 28, 29, 30, 53, 63,	2.1a Weather is the condition of the outside air at a particular moment.
73, 86	2.1b Weather can be described and measured by:
	Temperature
	Wind speed and direction
	Form and amount of precipitation
	General sky conditions (cloudy, sunny, partly cloudy).
	2.1c Water is recycled by natural processes on Earth.
	Evaporation: changing of water (liquid) into water vapor (gas)
	Condensation: changing of water vapor (gas) into water (liquid)
	Precipitation: rain, sleet, snow, hail
	Runoff: water flowing on Earth's surface
	Groundwater: water that moves downward into the ground.
TIB page 43, Hands-On Science	Standard 1: Analysis, Inquiry, and Design
Activity Seasons	Scientific Inquiry
Tienvity Beasons	Key Idea 1: The central purpose of scientific inquiry is to develop explanations of
	natural phenomena in a continuing, creative process.
	S1.1 Ask "why" questions in attempts to seek greater understanding concerning
	objects and events they have observed and heard about.
	S1.1a Observe and discuss objects and events and record observations.
	, and the second
	General Skills
	xii. utilize senses optimally for making observations.

SRA Snapshots Simply ScienceTM Grade 1 Earth Science Unit 6: Earth in Space

Program Components	New York Science Core Curriculum
Video Earth in Space	Standard 4: The Physical Setting
RAF "The Mysterious Moon"	Key Idea 1: The Earth and celestial phenomena can be described by principles of
RANF "Look Up!"	relative motion and perspective.
TIB pages 44, 45, 46, 47, 48, 49	Performance Indicator 1.1: Describe patterns of daily, monthly, and seasonal
BLM pages 120, 121, 122, 123,	changes in their environment.
124, 125, 126, 127, 128, 129	Major Understandings:
Cards 31, 32, 33, 34, 35, 36, 86, 89	1.1a Natural cycles and patterns include:
	 Earth spinning around once every 24 hours (rotation), resulting in day and night
	 Earth moving in a path around the Sun (revolution), resulting in one Earth year
	The length of daylight and darkness varying with the seasons
	Weather changing from day to day and through the seasons
	 The appearance of the Moon changing as it moves in a path around Earth to complete a single cycle.
	1.1c The Sun and other stars appear to move in a recognizable pattern both daily and seasonally.

Earth Science Unit 6 (continued)	
Program Components	New York Science Core Curriculum
TIB page 49, Hands-On Science Activity Modeling Moon Phases	Standard 1: Analysis, Inquiry, and Design Scientific Inquiry Key Idea 1: The central purpose of scientific inquiry is to develop explanations of natural phenomena in a continuing, creative process. S1.1 Ask "why" questions in attempts to seek greater understanding concerning objects and events they have observed and heard about. S1.1a Observe and discuss objects and events and record observations. Key Idea 2: Beyond the use of reasoning and consensus, scientific inquiry involves the testing of proposed explanations involving the use of conventional techniques and procedures and usually requiring considerable ingenuity. S2.3 Carry out their plans for exploring phenomena through direct observation and through the use of simple instruments that permit measurement of quantities, such as length, mass, volume, temperature, and time. S2.3b Record observations accurately and concisely.
	General Skills i. follow safety procedures in the classroom, laboratory, and field. ix. order and sequence objects and/or events xiv. observe, identify, and communicate patterns.

SRA Snapshots Simply ScienceTM Grade 1 Physical Science Unit 7: Properties of Matter

Program Components	New York Science Core Curriculum
Video Properties of Matter	Standard 4: The Physical Setting
RAF "What's the Matter?"	Key Idea 3: Matter is made up of particles whose properties determine the
RANF "Matter All Around"	observable characteristics of matter and its reactivity.
TIB pages 50, 51, 52, 53, 54, 55	Performance Indicator 2.1: Observe and describe properties of materials, using
BLM pages 130, 131, 132, 133,	appropriate tools.
134, 135, 136, 137, 138, 139	Major Understandings:
Cards 37, 38, 39, 40, 41, 42, 63, 73,	3.1b Matter has properties (color, hardness, odor, sound, taste, etc.) that can be
90	observed through the senses.
	3.1c Objects have properties that can be observed, described, and/or measured: length,
	width, volume, size, shape, mass or weight, temperature, texture, flexibility,
	reflectiveness of light.
	3.1f Objects and/or materials can be sorted or classified according to their properties.
	Performance Indicator 3.2: Describe chemical and physical changes, including
	changes in states of matter.
	Major Understandings:
	3.2a Matter exists in three states: solid, liquid, gas.
	Solids have a definite shape and volume
	Liquids do not have a definite shape but have a definite volume
	Gases do not hold their shape or volume.
	3.2b Temperature can affect the state of matter of a substance.
	3.2c Changes in the properties or materials of objects can be observed and described.

Physical Science Unit 7 (continued)	
Program Components	New York Science Core Curriculum
TIB page 55, Hands-On Science Activity Making Mixtures	Standard 1: Analysis, Inquiry, and Design Scientific Inquiry Key Idea 1: The central purpose of scientific inquiry is to develop explanations of natural phenomena in a continuing, creative process. S1.1 Ask "why" questions in attempts to seek greater understanding concerning objects and events they have observed and heard about. S1.1a Observe and discuss objects and events and record observations.
	General Skills i. follow safety procedures in the classroom, laboratory, and field. xii. utilize senses optimally for making observations. xiii. observe, analyze, and report observations of objects and events. xix. make predictions based on prior experiences and/or information.

SRA Snapshots Simply ScienceTM Grade 1 Physical Science Unit 8: Learning About Forces

Program Components	New York Science Core Curriculum
Video Learning About Forces	Standard 4: The Physical Setting
RAF "Queen of the Hill"	Key Idea 5: Energy and matter interact through forces that result in changes in
RANF "Pushes and Pulls"	motion.
TIB pages 56, 57, 58, 59, 60, 61	Performance Indicator 5.1: Describe the effects of common forces (pushes and
BLM pages 140, 141, 142, 143,	pulls) of objects, such as those caused by gravity, magnetism, and mechanical
144, 145, 146, 147, 148, 149	forces.
Cards 43, 44, 45, 46, 47, 48	Major Understandings:
	5.1a The position of an object can be described by locating it relative to another object
	or the background (e.g., on top of, next to, over, under, etc.).
	5.1b The position or direction of motion of an object can be changed by pushing or
	pulling.
	5.1c The force of gravity pulls objects toward the center of Earth.
	5.1e Magnetism is a force that may attract or repel certain materials.

Physical Science Unit 8 (continued)	
Program Components	New York Science Core Curriculum
TIB page 61, Hands-On Science Activity <i>Big and Small Pushes</i>	Standard 1: Analysis, Inquiry, and Design Mathematical Analysis Key Idea 3: Critical thinking skills are used in the solution of mathematical problems. M3.1 Explore and solve problems generated from school, home, and community situations, using concrete objects or manipulative materials when possible. M3.1a Use appropriate scientific tools, such as metric rulers, spring scale, pan balance, graph paper, thermometers [Fahrenheit and Celsius], graduated cylinders to solve
	Standard 1: Analysis, Inquiry, and Design Scientific Inquiry Key Idea 1: The central purpose of scientific inquiry is to develop explanations of natural phenomena in a continuing, creative process. S1.1 Ask "why" questions in attempts to seek greater understanding concerning objects and events they have observed and heard about. S1.1a Observe and discuss objects and events and record observations.
	General Skills ii. safely and accurately use the following tools: • Ruler. vi. select appropriate standard and nonstandard measurement tools for measurement
	activities. vii. estimate, find, and communicate measurements, using standard and nonstandard units. viii. use and record appropriate units for measured or calculated values. xii. utilize senses optimally for making observations.
SRA Spanshots Simply Scie	xiii. observe, analyze, and report observations of objects and events. xv. observe, identify, and communicate cause-and-effect relationships.

SRA Snapshots Simply ScienceTM Grade 1 Physical Science Unit 9: Heat, Light, and Sound

Program Components	New York Science Core Curriculum
Video Heat, Light, and Sound	Standard 4: The Physical Setting
RAF "The Energy Challenge"	Key Idea 4: Energy exists in many forms, and when these forms change energy is
RANF "Energy All Around"	conserved.
TIB pages 62, 63, 64, 65, 66, 67	Performance Indicator 4.1: Describe a variety of forms of energy (e.g., heat,
BLM pages 150, 151, 152, 153,	chemical, light) and the changes that occur in objects when they interact with
154, 155, 156, 157, 158, 159	those forms of energy.
Cards 36, 49, 50, 51, 52, 53, 54, 59,	Major Understandings:
65, 70, 73, 79, 89	4.1a Energy exists in various forms: heat, electric, sound, chemical, mechanical, light.
	4.1d Energy and matter interact: water is evaporated by the Sun's heat; a bulb is
	lighted by means of electrical current; a musical instrument is played to produce sound;
	dark colors may absorb light, light colors may reflect light.
	4.1f Heat can be released in many ways, for example, by burning, rubbing (friction), or
	combining one substance with another.

Physical Science Unit 9 (continued)	
Program Components	New York Science Core Curriculum
TIB page 67, Hands-On Science Activity Investigating Sound	Standard 1: Analysis, Inquiry, and Design Scientific Inquiry Key Idea 1: The central purpose of scientific inquiry is to develop explanations of natural phenomena in a continuing, creative process. S1.1 Ask "why" questions in attempts to seek greater understanding concerning objects and events they have observed and heard about. S1.1a Observe and discuss objects and events and record observations.
	General Skills i. follow safety procedures in the classroom, laboratory, and field. xii. utilize senses optimally for making observations. xiii. collect and organize data, choosing the appropriate representation: • Journal entries. • Graphic representations. • Drawings/pictorial representations.

SRA Snapshots Simply ScienceTM correlation to New York Science Core Curriculum Grade 2

SRA Snapshots Simply ScienceTM consists of several components. Each level has Simply Science Video lessons (Video) that provide an introduction to or review of the unit science concepts. The Fiction Read Alouds (RAF) and Nonfiction Read Alouds (RANF) provide student friendly text that reinforces the science concepts in the video. The Teacher's Idea Book (TIB) provides quick lesson activities and reproducible pages (BLM). The Vocabulary Photo Cards (Cards) contain engaging photos, definitions, and additional activities.

KEY:
Program Component
Video lessons
Read Aloud - Fiction
Read Aloud - Nonfiction
Teacher's Idea Book
Reproducible pages
Vocabulary Photo Cards

SRA Snapshots Simply ScienceTM Grade 2 Life Science Unit 1: Organisms Are Living Things

Program Components	New York Science Core Curriculum
Video Organisms Are Living	Standard 4: The Living Environment
Things	Key Idea 1: Living things are both similar to and different from each other and
RAF "The Brave Beaver"	from nonliving things.
RANF "Organisms Are Alive"	Performance Indicator 1.1: Describe the characteristics of and variations between
TIB pages 14, 15, 16, 17, 18, 19	living and nonliving things.
BLM pages 70, 71, 72, 73, 74, 75,	Major Understandings:
76, 77, 78, 79	1.1a Animals need air, water, and food in order to live and thrive.
Cards 1, 2, 3, 4, 5, 6, 7, 8, 10, 11,	1.1b Plants require air, water, nutrients, and light in order to live and thrive.
57, 59, 62, 64, 65, 70, 72, 80, 83, 87,	
88	Performance Indicator 1.2: Describe the life processes common to all living
	things.
	Major Understandings:
	1.2a Living things grow, take in nutrients, breathe, reproduce, eliminate waste, and die.
	Key Idea 5: Organisms maintain a dynamic equilibrium that sustains life.
	Performance Indicator 5.1: Describe basic life functions of common living
	specimens (e.g., guppies, mealworms, gerbils).
	Major understandings:
	5.1a All living things grow, take in nutrients, breathe, reproduce, and eliminate waste.
	5.1b An organism's external physical features can enable it to carry out life functions
	in its particular environment.

natural phenomena in a continuing, creative process.	Life Science Unit 1 (continued)	
Activity Grouping Animals Scientific Inquiry Key Idea 1: The central purpose of scientific inquiry is to develop explanations natural phenomena in a continuing, creative process. S1.1 Ask "why" questions in attempts to seek greater understanding concerning objects and events they have observed and heard about.	Program Components	New York Science Core Curriculum
the testing of proposed explanations involving the use of conventional technique and procedures and usually requiring considerable ingenuity. S2.3 Carry out their plans for exploring phenomena through direct observation and through the use of simple instruments that permit measurement of quantic such as length, mass, volume, temperature, and time. S2.3b Record observations accurately and concisely.	1 0	Scientific Inquiry Key Idea 1: The central purpose of scientific inquiry is to develop explanations of natural phenomena in a continuing, creative process. S1.1 Ask "why" questions in attempts to seek greater understanding concerning objects and events they have observed and heard about. S1.1a Observe and discuss objects and events and record observations. Key Idea 2: Beyond the use of reasoning and consensus, scientific inquiry involves the testing of proposed explanations involving the use of conventional techniques and procedures and usually requiring considerable ingenuity. S2.3 Carry out their plans for exploring phenomena through direct observation and through the use of simple instruments that permit measurement of quantities, such as length, mass, volume, temperature, and time. S2.3b Record observations accurately and concisely.
 General Skills i. follow safety procedures in the classroom, laboratory, and field. x. classify objects according to an established scheme. xi. generate a scheme for classification. 		i. follow safety procedures in the classroom, laboratory, and field.x. classify objects according to an established scheme.

SRA Snapshots Simply ScienceTM Grade 2 Life Science Unit 2: Learning About Animals

Program Components	New York Science Core Curriculum
Video Learning About Animals RAF "Fun in the Rain Forest" RANF "Animals Are Living Things" TIB pages 20, 21, 22, 23, 24, 25 BLM pages 80, 81, 82, 83, 84, 85, 86, 87, 88, 89 Cards 7, 8, 9, 10, 11, 12, 55, 57, 59, 61, 62, 64, 65, 70, 72, 80, 83, 87, 88	Standard 4: The Living Environment Key Idea 2: Organisms inherit genetic information in a variety of ways that result in continuity of structure and function between parents and offspring. Performance Indicator 2.1: Recognize that traits of living things are both inherited and acquired or learned. 2.1a Some traits of living things have been inherited (e.g., color of flowers and number of limbs of animals). 2.1b Some characteristics result from an individual's interactions with the environment and cannot be inherited by the next generation (e.g., having scars; riding a bicycle).
	Key Idea 4: The continuity of life is sustained through reproduction and development. Performance Indicator 4.1: Describe the major life stages in the life cycles of selected plants and animals. Major Understandings: 4.1a Plants and animals have life cycles. These may include beginning of a life, development into an adult, reproduction as an adult, and eventually death. 4.1e Each generation of animals goes through changes in form from young to adult. This completed sequence of changes in form is called a life cycle. Some insects change from egg to larva to pupa to adult.
TIB page 25, Hands-On Science Activity Modeling a Life Cycle	Standard 1: Analysis, Inquiry, and Design Scientific Inquiry Key Idea 1: The central purpose of scientific inquiry is to develop explanations of natural phenomena in a continuing, creative process. S1.1 Ask "why" questions in attempts to seek greater understanding concerning objects and events they have observed and heard about. S1.1a Observe and discuss objects and events and record observations. General Skills i. follow safety procedures in the classroom, laboratory, and field. ix. order and sequence objects and/or events

SRA Snapshots Simply ScienceTM Grade 2 Life Science Unit 3: Ecosystems All Around

environment.

Life Science Unit 3 (continued)	
Program Components	New York Science Core Curriculum
TIB page 31, Hands-On Science Activity Caterpillar Camouflage	Standard 1: Analysis, Inquiry, and Design Scientific Inquiry Key Idea 1: The central purpose of scientific inquiry is to develop explanations of natural phenomena in a continuing, creative process. S1.1 Ask "why" questions in attempts to seek greater understanding concerning objects and events they have observed and heard about. S1.1a Observe and discuss objects and events and record observations. Key Idea 2: Beyond the use of reasoning and consensus, scientific inquiry involves the testing of proposed explanations involving the use of conventional techniques and procedures and usually requiring considerable ingenuity. S2.3 Carry out their plans for exploring phenomena through direct observation and through the use of simple instruments that permit measurement of quantities, such as length, mass, volume, temperature, and time. S2.3b Record observations accurately and concisely. General Skills i. follow safety procedures in the classroom, laboratory, and field. xii. utilize senses optimally for making observations. xiii. observe, analyze, and report observations of objects and events. xix. make predictions based on prior experiences and/or information.

SRA Snapshots Simply ScienceTM Grade 2 Earth Science Unit 4: Earth's Natural Resources

Program Components	New York Science Core Curriculum
Video Earth's Natural Resources	Standard 4: The Physical Setting
RAF "The Missing Rock"	Key Idea 2: Many of the phenomena that we observe on Earth involve
RANF "Digging in the Dirt"	interactions among components of air, water, and land.
TIB pages 32, 33, 34, 35, 36, 37	Performance Indicator 2.1: Describe the relationship among air, water, and land
BLM pages 100, 101, 102, 103,	on Earth.
104, 105, 106, 107, 108, 109	Major Understandings:
Cards 16, 19, 20, 21, 22, 23, 24, 78,	2.1d Erosion and deposition result from the interaction among air, water, and land.
79, 82, 89	Interaction between air and water breaks down earth materials
	Pieces of earth materials may be moved by air, water, wind, and gravity
	Pieces of earth material will settle or deposit on land or in the water in
	different places
	Soil is composed of broken-down pieces of living and nonliving earth
	material.

Earth Science Unit 4 (continued)	
Program Components	New York Science Core Curriculum
TIB page 37, Hands-On Science Activity Hand-Made Fossils	Standard 1: Analysis, Inquiry, and Design Scientific Inquiry Key Idea 1: The central purpose of scientific inquiry is to develop explanations of natural phenomena in a continuing, creative process. S1.1 Ask "why" questions in attempts to seek greater understanding concerning objects and events they have observed and heard about. S1.1a Observe and discuss objects and events and record observations. Key Idea 2: Beyond the use of reasoning and consensus, scientific inquiry involves the testing of proposed explanations involving the use of conventional techniques and procedures and usually requiring considerable ingenuity. S2.3 Carry out their plans for exploring phenomena through direct observation and through the use of simple instruments that permit measurement of quantities, such as length, mass, volume, temperature, and time. S2.3b Record observations accurately and concisely. General Skills i. follow safety procedures in the classroom, laboratory, and field. iv. manipulate materials through teacher direction and free discovery.

SRA Snapshots Simply ScienceTM Grade 2 Earth Science Unit 5: Weather and Water

Program Components	New York Science Core Curriculum
Video Weather and Water	Standard 4: The Physical Setting
RAF "Felicia and the Four Seasons"	Key Idea 2: Many of the phenomena that we observe on Earth involve
RANF "All About Weather!"	interactions among components of air, water, and land.
TIB pages 38, 39, 40, 41, 42, 43	Performance Indicator 2.1: Describe the relationship among air, water, and land
BLM pages 110, 111, 112, 113,	on Earth.
114, 115, 116, 117, 118, 119	Major Understandings:
Cards 25, 26, 27, 28, 29, 30, 41, 60,	2.1a Weather is the condition of the outside air at a particular moment.
66, 75, 81, 85, 90	2.1b Weather can be described and measured by:
	Temperature
	Wind speed and direction
	Form and amount of precipitation
	 General sky conditions (cloudy, sunny, partly cloudy).
	2.1c Water is recycled by natural processes on Earth.
	Evaporation: changing of water (liquid) into water vapor (gas)
	 Condensation: changing of water vapor (gas) into water (liquid)
	Precipitation: rain, sleet, snow, hail
	Runoff: water flowing on Earth's surface
	Groundwater: water that moves downward into the ground.

Earth Science Unit 5 (continued)	
Program Components	New York Science Core Curriculum
Program Components TIB page 43, Hands-On Science Activity What Can the Wind Blow?	Standard 1: Analysis, Inquiry, and Design Mathematical Analysis Key Idea 3: Critical thinking skills are used in the solution of mathematical problems. M3.1 Explore and solve problems generated from school, home, and community situations, using concrete objects or manipulative materials when possible. M3.1a Use appropriate scientific tools, such as metric rulers, spring scale, pan balance, graph paper, thermometers [Fahrenheit and Celsius], graduated cylinder to solve problems about the natural world. Standard 1: Analysis, Inquiry, and Design Scientific Inquiry Key Idea 1: The central purpose of scientific inquiry is to develop explanations of natural phenomena in a continuing, creative process. S1.1 Ask "why" questions in attempts to seek greater understanding concerning objects and events they have observed and heard about. S1.1a Observe and discuss objects and events and record observations. Key Idea 2: Beyond the use of reasoning and consensus, scientific inquiry involves the testing of proposed explanations involving the use of conventional techniques and procedures and usually requiring considerable ingenuity. S2.3 Carry out their plans for exploring phenomena through direct observation and through the use of simple instruments that permit measurement of quantities, such as length, mass, volume, temperature, and time. S2.3b Record observations accurately and concisely.
	General Skills i. follow safety procedures in the classroom, laboratory, and field. ii. safely and accurately use the following tools: • Ruler. vi. select appropriate standard and nonstandard measurement tools for measurement activities. vii. estimate, find, and communicate measurements, using standard and nonstandard units.
	viii. use and record appropriate units for measured or calculated values.

SRA Snapshots Simply ScienceTM Grade 2 Earth Science Unit 6: Learning About Space

Program Components	New York Science Core Curriculum
Video Learning About Space RAF "Janie's Space Journey" RANF "Earth in Space" TIB pages 44, 45, 46, 47, 48, 49 BLM pages 120, 121, 122, 123, 124, 125, 126, 127, 128, 129 Cards 31, 32, 33, 34, 35, 36, 86	Standard 4: The Physical Setting Key Idea 1: The Earth and celestial phenomena can be described by principles of relative motion and perspective. Performance Indicator 1.1: Describe patterns of daily, monthly, and seasonal changes in their environment. Major Understandings: 1.1a Natural cycles and patterns include: • Earth spinning around once every 24 hours (rotation), resulting in day and night • Earth moving in a path around the Sun (revolution), resulting in one Earth year • The length of daylight and darkness varying with the seasons • Weather changing from day to day and through the seasons • The appearance of the Moon changing as it moves in a path around Earth to complete a single cycle. 1.1c The Sun and other stars appear to move in a recognizable pattern both daily and seasonally.
TIB page 49, Hands-On Science Activity Stars in the Day Time	Standard 1: Analysis, Inquiry, and Design Scientific Inquiry Key Idea 1: The central purpose of scientific inquiry is to develop explanations of natural phenomena in a continuing, creative process. S1.1 Ask "why" questions in attempts to seek greater understanding concerning objects and events they have observed and heard about. S1.1a Observe and discuss objects and events and record observations. Key Idea 2: Beyond the use of reasoning and consensus, scientific inquiry involves the testing of proposed explanations involving the use of conventional techniques and procedures and usually requiring considerable ingenuity. S2.3 Carry out their plans for exploring phenomena through direct observation and through the use of simple instruments that permit measurement of quantities, such as length, mass, volume, temperature, and time. S2.3b Record observations accurately and concisely. General Skills xii. utilize senses optimally for making observations.

SRA Snapshots Simply ScienceTM Grade 2 Physical Science Unit 7: Characteristics of Matter

Program Components	New York Science Core Curriculum
Video Characteristics of Matter	Standard 4: The Physical Setting
RAF "Irene's Exploration"	Key Idea 3: Matter is made up of particles whose properties determine the
RANF "All About Matter"	observable characteristics of matter and its reactivity.
TIB pages 50, 51, 52, 53, 54, 55	Performance Indicator 2.1: Observe and describe properties of materials, using
BLM pages 130, 131, 132, 133,	appropriate tools.
134, 135, 136, 137, 138, 139	Major Understandings:
Cards 37, 38, 39, 40, 41, 42, 56, 66,	3.1b Matter has properties (color, hardness, odor, sound, taste, etc.) that can be
89	observed through the senses.
	3.1c Objects have properties that can be observed, described, and/or measured: length,
	width, volume, size, shape, mass or weight, temperature, texture, flexibility,
	reflectiveness of light.
	3.1d Measurements can be made with standard metric units and nonstandard units.
	Performance Indicator 3.2: Describe chemical and physical changes, including
	changes in states of matter.
	Major Understandings:
	3.2a Matter exists in three states: solid, liquid, gas.
	 Solids have a definite shape and volume
	Liquids do not have a definite shape but have a definite volume
	Gases do not hold their shape or volume.
	3.2b Temperature can affect the state of matter of a substance.
	3.2c Changes in the properties or materials of objects can be observed and described.

Physical Science Unit 7 (continued)	
Program Components	New York Science Core Curriculum
TIB page 55, Hands-On Science Activity How Much Liquid?	Standard 1: Analysis, Inquiry, and Design Mathematical Analysis Key Idea 3: Critical thinking skills are used in the solution of mathematical problems. M3.1 Explore and solve problems generated from school, home, and community situations, using concrete objects or manipulative materials when possible. M3.1a Use appropriate scientific tools, such as metric rulers, spring scale, pan balance, graph paper, thermometers [Fahrenheit and Celsius], graduated cylinder to solve problems about the natural world. Standard 1: Analysis, Inquiry, and Design Scientific Inquiry Key Idea 1: The central purpose of scientific inquiry is to develop explanations of natural phenomena in a continuing, creative process. S1.1 Ask "why" questions in attempts to seek greater understanding concerning objects and events they have observed and heard about. S1.1a Observe and discuss objects and events and record observations. Key Idea 2: Beyond the use of reasoning and consensus, scientific inquiry involves the testing of proposed explanations involving the use of conventional techniques and procedures and usually requiring considerable ingenuity. S2.3 Carry out their plans for exploring phenomena through direct observation and through the use of simple instruments that permit measurement of quantities, such as length, mass, volume, temperature, and time. S2.3b Record observations accurately and concisely.
	 General Skills i. follow safety procedures in the classroom, laboratory, and field. ii. safely and accurately use the following tools: Measuring cups. vi. select appropriate standard and nonstandard measurement tools for measurement activities. vii. estimate, find, and communicate measurements, using standard and nonstandard units. viii. use and record appropriate units for measured or calculated values. xviii. collect and organize data, choosing the appropriate representation: Journal entries. Graphic representations. Drawings/pictorial representations.

SRA Snapshots Simply Science TM	Grade 2
Physical Science Unit 8: Forces and	d Motion

Program Components	New York Science Core Curriculum
Video Forces and Motion	Standard 4: The Physical Setting
RAF "Carlos's Skateboard"	Key Idea 5: Energy and matter interact through forces that result in changes in
RANF "Motion, Magnets, and	motion.
More!"	Performance Indicator 5.1: Describe the effects of common forces (pushes and
TIB pages 56, 57, 58, 59, 60, 61	pulls) of objects, such as those caused by gravity, magnetism, and mechanical
BLM pages 140, 141, 142, 143,	forces.
144, 145, 146, 147, 148, 149	Major Understandings:
Cards 43, 44, 45, 46, 47, 48, 71	5.1a The position of an object can be described by locating it relative to another object or the background (e.g., on top of, next to, over, under, etc.).
	5.1b The position or direction of motion of an object can be changed by pushing or
	pulling.
	5.1c The force of gravity pulls objects toward the center of Earth.
	5.1e Magnetism is a force that may attract or repel certain materials.
	The same and the s
	Performance Indicator 5.2: Describe how forces can operate across distances.
	Major Understandings:
	5.2a The forces of gravity and magnetism can affect objects through gases, liquids, and
	solids.
	5.2b The force of magnetism on objects decreases as distance increases.
TIB page 61, Hands-On Science	Standard 1: Analysis, Inquiry, and Design
Activity Magnets	Scientific Inquiry
	Key Idea 1: The central purpose of scientific inquiry is to develop explanations of natural phenomena in a continuing, creative process.
	S1.1 Ask "why" questions in attempts to seek greater understanding concerning
	objects and events they have observed and heard about.
	S1.1a Observe and discuss objects and events and record observations.
	,
	Key Idea 2: Beyond the use of reasoning and consensus, scientific inquiry involves
	the testing of proposed explanations involving the use of conventional techniques
	and procedures and usually requiring considerable ingenuity.
	S2.3 Carry out their plans for exploring phenomena through direct observation
	and through the use of simple instruments that permit measurement of quantities,
	such as length, mass, volume, temperature, and time.
	S2.3b Record observations accurately and concisely.
	General Skills
	iv. manipulate materials through teacher direction and free discovery.
	xii. utilize senses optimally for making observations.
	xiii. observe, analyze, and report observations of objects and events.
	xvii. observe, collect, organize, and appropriately record data, then accurately interpret
	results.

SRA Snapshots Simply Science TM Grade 2
Physical Science Unit 9: Energy Is Everywhere

Program Components	New York Science Core Curriculum
Video Energy Is Everywhere RAF "The Low-Energy Band" RANF "All About Energy TIB pages 62, 63, 64, 65, 66, 67 BLM pages 150, 151, 152, 153, 154, 155, 156, 157, 158, 159 Cards 41, 49, 50, 51, 52, 53, 54, 63, 69, 84, 86	Standard 4: The Physical Setting Key Idea 4: Energy exists in many forms, and when these forms change energy is conserved. Performance Indicator 4.1: Describe a variety of forms of energy (e.g., heat, chemical, light) and the changes that occur in objects when they interact with those forms of energy. Major Understandings: 4.1a Energy exists in various forms: heat, electric, sound, chemical, mechanical, light. 4.1b Energy can be transferred from one place to another. 4.1d Energy and matter interact: water is evaporated by the Sun's heat; a bulb is lighted by means of electrical current; a musical instrument is played to produce sound; dark colors may absorb light, light colors may reflect light.
	Performance Indicator 4.2: Observe the way one form of energy can be transferred into another form of energy present in common situations (e.g., mechanical to heat energy, mechanical to electrical energy, chemical to heat energy). Major Understandings: 4.2b Humans utilize interactions between matter and energy. Chemical to electrical, light, and heat: battery and bulb Electrical to sound (e.g., doorbell buzzer) Mechanical to sound (e.g., musical instruments, clapping) Light to electrical (e.g., solar-powered calculator).
TIB page 67, Hands-On Science Activity Heat Energy	Standard 1: Analysis, Inquiry, and Design Scientific Inquiry Key Idea 1: The central purpose of scientific inquiry is to develop explanations of natural phenomena in a continuing, creative process. S1.1 Ask "why" questions in attempts to seek greater understanding concerning objects and events they have observed and heard about. S1.1a Observe and discuss objects and events and record observations. Key Idea 2: Beyond the use of reasoning and consensus, scientific inquiry involves the testing of proposed explanations involving the use of conventional techniques and procedures and usually requiring considerable ingenuity. S2.3 Carry out their plans for exploring phenomena through direct observation and through the use of simple instruments that permit measurement of quantities, such as length, mass, volume, temperature, and time. S2.3b Record observations accurately and concisely.
	General Skills i. follow safety procedures in the classroom, laboratory, and field. xii. utilize senses optimally for making observations. xiii. observe, analyze, and report observations of objects and events. xv. observe, identify, and communicate cause-and-effect relationships.