SRA Snapshots Simply Science™ correlation to Kentucky Core Content for Science Assessment 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:
Reference	Program Component
Video	Video lessons
RAF	Read Aloud - Fiction
RANF	Read Aloud - Nonfiction
TIB	Teacher's Idea Book
BLM	Reproducible pages
Cards	Vocabulary Photo Cards

SRA Snapshots Simply Science[™] Grade 1 Life Science Unit 1: Living Things and Their Needs

8	0
Program Components	Kentucky Core Content for Science Assessment
Video Living Things and Their	Big Idea: Unity and Diversity (Biological Science)
Needs	Academic Expectations
RAF "A Funny Frog"	2.1 Students understand scientific ways of thinking and working and use those
RANF "We Are Living Things"	methods to solve real-life problems.
TIB pages 14, 15, 16, 17, 18, *19	2.2 Students identify, analyze, and use patterns such as cycles and trends to
BLM pages 70, 71, 72, 73, 74, 75,	understand past and present events and predict possible future events.
76, 77, 78, 79	2.3 Students identify and analyze systems and the ways their components work
Cards 1, 2, 3, 4, 5, 6, 55, 56, 57, 60,	together or affect each other.
61, 63, 64, 65, 67, 68, 69, 70, 71, 72,	SC-EP-3.4.1 Students will explain the basic needs of organisms. Organisms have basic
73, 74, 75, 76, 77, 78, 79, 80, 81, 82,	needs. For example, animals need air, water and food; plants need air, water, nutrients,
83, 84, 85, 86, 87, 88, 89, 90	and light. Organisms can survive only in environments in which their needs can be
	met. DOK 2
*Hands-On Science Activity Group	SC-EP-3.4.2 Students will understand that living things in the environment are
Living/Nonliving Things	classified as living, nonliving, and once living. Living things differ from nonliving
	things. Organisms are classified into groups by using various characteristics (e.g., body
	coverings, body subclutes).

SRA Snapshots Simply Science TM Grade 1 Life Science Unit 2: Learning About Plants		
Program Components	Kentucky Core Content for Science Assessment	
Video Learning About Plants	Big Idea: Unity and Diversity (Biological Science)	
RAF "Which Way to Sprout?"	Academic Expectations	
RANF "Plants Are Living Things"	2.1 Students understand scientific ways of thinking and working and use those	
TIB pages 20, 21, 22, 23, 24, *25	methods to solve real-life problems.	
BLM pages 80, 81, 82, 83, 84, 85,	2.2 Students identify, analyze, and use patterns such as cycles and trends to	
86, 87, 88, 89	understand past and present events and predict possible future events.	
Cards 7, 8, 9, 10, 11, 12, 55, 56, 69,	2.3 Students identify and analyze systems and the ways their components work	
81, 84, 87, 88	together or affect each other.	
	SC-EP-3.4.3 Students will describe the basic structures and related functions of plants	
*Hands-On Science Activity	and animals that contribute to growth, reproduction and survival. Each plant or animal	
Looking at Plant Parts	has observable functions in growth, survival and reproduction. For example, humans	
	have distinct structures for walking, holding, seeing and talking. These observable	
	structures should be explored to sort, classify, compare and describe organisms. DOK	
	2	
	SC-EP-3.4.4 Students will describe a variety of plant and animal life cycles to	
	understand patterns of the growth, development, reproduction and death of an	
	organism. Plants and animals have life cycles that include the beginning of life, growth	
	and development, reproduction and death. The details of a life cycle are different for	
	different organisms. Observations of different life cycles should be made in order to	
	identify patterns and recognize similarities and differences. DOK 2	

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

Life Science Unit 3. Habitats Are Everywhere		
Program Components	Kentucky Core Content for Science Assessment	
Video Habitats Are Everywhere	Big Idea: Energy Transformations (Unifying Concepts)	
RAF "A Home for Maggie"	Academic Expectations	
RANF "A Habitat Is a Home"	2.1 Students understand scientific ways of thinking and working and use those	
TIB pages 26, 27, 28, 29, 30, *31	methods to solve real-life problems.	
BLM pages 90, 91, 92, 93, 94, 95,	2.2 Students identify, analyze and use patterns such as cycles and trends to	
96, 97, 98, 99	understand past and present events and predict possible future events.	
Cards 13, 14, 15, 16, 17, 18	2.3 Students identify and analyze systems and the ways their components work	
	together or affect each other.	
*Hands-On Science Activity	2.4 Students use the concept of scale and scientific models to explain the	
Habitat Mobiles	organization and functioning of living and nonliving things and predict other	
	characteristics that might be observed.	
	SC-EP-4.6.1 Students will describe basic relationships of plants and animals in an	
	ecosystem (food chains). Plants make their own food. All animals depend on plants.	
	Some animals eat plants for food. Other animals eat animals that eat the plants. Basic	
	relationships and connections between organisms in food chains can be used to	
	discover patients within ecosystems. DOK 2	
	Big Idea: Interdenendence (Unifying Concents)	
	Academic Expectations	
	2.1 Students understand scientific ways of thinking and working and use those	
	methods to solve real-life problems.	
	2.2 Students identify, analyze and use patterns such as cycles and trends to	
	understand past and present events and predict possible future events.	
	2.3 Students identify and analyze systems and the ways their components work	
	together or affect each other.	
	2.4 Students use the concept of scale and scientific models to explain the	
	organization and functioning of living and nonliving things and predict other	
	characteristics that might be observed.	
	SC-EP-4.7.1 Students will describe the cause and effect relationships existing between	
	organisms and their environments. The world has many different environments.	
	Organisms require an environment in which their needs can be met. When the	
	environment changes some plants and animals survive and reproduce and others die or	
	move to new locations. DOK 2	
SRA Snapshots Simply Scien	ce TM Grade 1	

SRA Snapshots Simply Science[™] Grade 1 Earth Science Unit 4: Learning About Earth's Surface

Program Components	Kentucky Core Content for Science Assessment
Video Learning About Earth's	Big Idea: The Earth and the Universe (Earth/Space Science)
Surface	Academic Expectations
RAF "A Big Difference"	2.1 Students understand scientific ways of thinking and working and use those
RANF "Earth's Many Resources"	methods to solve real-life problems.
TIB pages 32, 33, 34, 35, 36, *37	2.2 Students identify, analyze and use patterns such as cycles and trends to
BLM pages 100, 101, 102, 103,	understand past and present events and predict possible future events.
104, 105, 106, 107, 108, 109	2.3 Students identify and analyze systems and the ways their components work
Cards 19, 20, 21, 22, 23, 24, 85, 90	together or affect each other.
	SC-EP-2.3.1 Students will describe earth materials (solid rocks, soils, water and gases
*Hands-On Science Activity What	of the atmosphere) using their properties. Earth materials include solid rocks and soils,
Comes from Earth's Surface?	water and the gases of the atmosphere. Minerals that make up rocks have properties of
	color, luster and hardness. Soils have properties of color, texture, the capacity to retain
	water and the ability to support plant growth. Water on Earth and in the atmosphere
	can be a solid, liquid or gas. DOK 2

SRA Snapshots Simply Science TM Grade 1	
Earth Science Unit 5: Weather on Earth	
Program Components	Kentucky Core Content for Science Assessment
Video Weather on Earth	Big Idea: The Earth and the Universe (Earth/Space Science)
RAF "A Leaf's Story"	Academic Expectations
RANF "All About Weather!"	2.1 Students understand scientific ways of thinking and working and use those
TIB pages 38, 39, 40, 41, 42, *43	methods to solve real-life problems.
BLM pages 110, 111, 112, 113,	2.2 Students identify, analyze and use patterns such as cycles and trends to
114, 115, 116, 117, 118, 119	understand past and present events and predict possible future events.
Cards 25, 26, 27, 28, 29, 30, 53, 63,	2.3 Students identify and analyze systems and the ways their components work
73, 86, 90	together or affect each other.
	SC-EP-2.3.2 Students will describe patterns in weather and weather data in order to
*Hands-On Science Activity	make simple predictions based on those patterns discovered. Weather changes from
Seasons	day to day and over seasons. Weather can be described using observations and
	measurable quantities such as temperature, wind direction, wind speed and
	precipitation. Simple predictions can be made by analyzing collected data for patterns.
	DOK 2

SRA Snapshots Simply Science[™] Grade 1 Earth Science Unit 6: Earth in Space

Program Components	Kentucky Core Content for Science Assessment
Video Earth in Space	Big Idea: The Earth and the Universe (Earth/Space Science)
RAF "The Mysterious Moon"	Academic Expectations
RANF "Look Up!"	2.1 Students understand scientific ways of thinking and working and use those
TIB pages 44, 45, 46, 47, 48, *49	methods to solve real-life problems.
BLM pages 120, 121, 122, 123,	2.2 Students identify, analyze and use patterns such as cycles and trends to
124, 125, 126, 127, 128, 129	understand past and present events and predict possible future events.
Cards 31, 32, 33, 34, 35, 36, 86	2.3 Students identify and analyze systems and the ways their components work
	together or affect each other.
*Hands-On Science Activity	SC-EP-2.3.3 Students will describe the properties, locations and real or apparent
Modeling Moon Phases	movements of objects in the sky (Sun, moon). Objects in the sky have properties,
	locations and real or apparent movements that can be observed and described.
	Observational data, patterns, and models should be used to describe real or apparent movements. DOK 2
	SC-EP-2.3.4 Students will describe the movement of the sun in the sky using evidence
	of interactions of the sun with the earth (e.g., shadows, position of sun relative to
	horizon) to identify patterns of movement. Changes in movement of objects in the sky
	have patterns that can be observed and described. The Sun appears to move across the
	sky in the same way every day but the Sun's apparent path changes slowly over
	seasons. Recognizing relationships between movements of objects and resulting
	phenomena, such as shadows, provides information that can be used to make
	predictions and draw conclusions about those movements. DOK 2
	SC-EP-2.3.5 Students will understand that the moon moves across the sky on a daily
	basis much like the Sun. The observable shape of the moon can be described as it
	changes from day to day on a cycle that lasts about a month.

SRA Snapshots Simply Science TM Grade 1 Physical Science Unit 7: Properties of Matter		
Program Components	Kentucky Core Content for Science Assessment	
Video Properties of Matter	Big Idea: Structure and Transformation of Matter (Physical Science)	
RAF "What's the Matter?"	Academic Expectations	
RANF "Matter All Around"	2.1 Students understand scientific ways of thinking and working and use those	
TIB pages 50, 51, 52, 53, 54, *55	methods to solve real-life problems.	
BLM pages 130, 131, 132, 133,	2.2 Students identify, analyze and use patterns such as cycles and trends to	
134, 135, 136, 137, 138, 139	understand past and present events and predict possible future events.	
Cards 37, 38, 39, 40, 41, 42, 63, 73,	2.3 Students identify and analyze systems and the ways their components work	
90	together or affect each other.	
	2.4 Students use the concept of scale and scientific models to explain the	
*Hands-On Science Activity	organization and functioning of living and nonliving things and predict other	
Making Mixtures	characteristics that might be observed.	
	SC-EP-1.1.1 Students will classify material objects by their properties providing	
	evidence to support their classifications. Objects are made of one or more materials	
	such as paper, wood, and metal. Objects can be described by the properties of those	
	materials from which they are made. Those properties and measurements of the objects	
	can be used to separate or classify objects or materials. DOK 3	
	SC-EP-1.1.2 Students will understand that objects have many observable properties	
	such as size, mass, shape, color, temperature, magnetism, and the ability to interact	
	and/or react with other substances. Some properties can be measured using tools such	
	as metric rulers, balances, and thermometers.	
	SC-EP-1.1.3 Students will describe the properties of water as it occurs as a solid,	
	liquid or gas. Matter (water) can exist in different states—solid, liquid or gas.	
	Properties of those states of matter can be used to describe and classify them. DOK 2	

SRA Snapshots Simply Science TM Grade 1	
Physical Science Unit 8: Learn	ning About Forces
Program Components	Kentucky Core Content for Science Assessment
Video Learning About Forces RAF "Queen of the Hill" RANF "Pushes and Pulls" TIB pages 56, 57, 58, 59, 60, *61 BLM pages 140, 141, 142, 143, 144, 145, 146, 147, 148, 149 Cards 43, 44, 45, 46, 47, 48 *Hands-On Science Activity <i>Big</i> <i>and Small Pushes</i>	 Big Idea: Motion and Forces (Physical Science) Academic Expectations 2.1 Students understand scientific ways of thinking and working and use those methods to solve real-life problems. 2.2 Students identify, analyze and use patterns such as cycles and trends to understand past and present events and predict possible future events. 2.3 Students identify and analyze systems and the ways their components work together or affect each other. SC-EP-1.2.1 Students will describe and make inferences about the interactions of magnets with other magnets and other matter (e.g., magnets can make some things move without touching them). Magnets have observable properties that allow them to attract and repel each other and attract certain kinds of other materials (e.g., iron). Based on the knowledge of the basic properties of magnets, predictions can be made and conclusions drawn about their interactions with other common objects. DOK 3 SC-EP-1.2.2 Students will describe the change in position over time (motion) of an object. An object's motion can be observed, described, compared and graphed by measuring its change in position over time. SC-EP-1.2.3 Students will describe the position and motion of objects and predict changes in position and motion as related to the strength of pushes and pulls. The position and motion of objects can be changed by pushing or pulling, can be explored in a variety of ways (such as rolling different objects down different ramps). The amount of change in position and motion is related to the strength of the push or pull (force). The force with which a ball is hit illustrates this principle. By examining cause and effect relationships related to forces and motions, consequences of change can be predicted. DOK 2
	SC-EP-1.2.4 Students will understand that the position of an object can be described by locating it relative to another object or the background. The position can be described using phrases such as to the right, to the left, 50 cm from the other object.
SRA Snapshots Simply Science	ce TM Grade 1
Physical Science Unit 9: Heat,	Light, and Sound
Program Components	Kentucky Core Content for Science Assessment
Video Heat, Light, and Sound RAF "The Energy Challenge" RANF "Energy All Around" TIB pages 62, 63, 64, 65, 66, *67 BLM pages 150, 151, 152, 153,	This topic is not covered in the Grade 1 Kentucky Core Content for Science Assessment, however it aligns with National Science Education Content Standard B: Physical Science—Students should develop an understanding of properties of objects
154, 155, 156, 157, 158, 159 Cards 49, 50, 51, 52, 53, 54 *Hands-On Science Activity	and materials, position and motion of objects, and light, heat, electricity, and magnetism.

Investigating Sound

SRA Snapshots Simply Science™ correlation to Kentucky Core Content for Science Assessment Grade 2

*SRA Snapshots Simply Science*TM 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:
Reference	Program Component
Video	Video lessons
RAF	Read Aloud - Fiction
RANF	Read Aloud - Nonfiction
TIB	Teacher's Idea Book
BLM	Reproducible pages
Cards	Vocabulary Photo Cards

SRA Snapshots Simply Science[™] Grade 2 Life Science Unit 1: Organisms Are Living Things

Program Components	Kentucky Core Content for Science Assessment
Video Organisms Are Living	Big Idea: Unity and Diversity (Biological Science)
Things	Academic Expectations
RAF "The Brave Beaver"	2.1 Students understand scientific ways of thinking and working and use those
RANF "Organisms Are Alive"	methods to solve real-life problems.
TIB pages 14, 15, 16, 17, 18, *19	2.2 Students identify, analyze, and use patterns such as cycles and trends to
BLM pages 70, 71, 72, 73, 74, 75,	understand past and present events and predict possible future events.
76, 77, 78, 79	2.3 Students identify and analyze systems and the ways their components work
Cards 1, 2, 3, 4, 5, 6, 7, 8, 11, 55,	together or affect each other.
57, 59, 62, 64, 65, 70, 72, 73, 80, 83,	SC-EP-3.4.1 Students will explain the basic needs of organisms. Organisms have basic
87, 88	needs. For example, animals need air, water and food; plants need air, water, nutrients,
	and light. Organisms can survive only in environments in which their needs can be
*Hands-On Science Activity	met. DOK 2
Grouping Animals	SC-EP-3.4.2 Students will understand that living things in the environment are
	classified as living, nonliving, and once living. Living things differ from nonliving
	things. Organisms are classified into groups by using various characteristics (e.g., body
	COVERINGS, body structures).
	SC-EP-5.4.5 Students will describe the basic structures and related functions of plants
	and animals that contribute to growth, reproduction and survival. Each plant of animal
	has observable functions in growin, survival and reproduction. For example, numans
	atructures should be explored to cort, closelify, compare and describe organisms, DOV
	2

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

Program Components	Kentucky Core Content for Science Assessment
Video Learning About Animals	Big Idea: Unity and Diversity (Biological Science)
RAF "Fun in the Rain Forest"	Academic Expectations
RANF "Animals Are Living	2.1 Students understand scientific ways of thinking and working and use those
Things"	methods to solve real-life problems.
TIB pages 20, 21, 22, 23, 24, *25	2.2 Students identify, analyze, and use patterns such as cycles and trends to
BLM pages 80, 81, 82, 83, 84, 85,	understand past and present events and predict possible future events.
86, 87, 88, 89	2.3 Students identify and analyze systems and the ways their components work
Cards 7, 8, 9, 10, 11, 12, 55, 57, 59,	together or affect each other.
61, 62, 64, 70, 72, 80, 83, 87, 88	SC-EP-3.4.4 Students will describe a variety of plant and animal life cycles to
	understand patterns of the growth, development, reproduction and death of an
*Hands-On Science Activity	organism. Plants and animals have life cycles that include the beginning of life, growth
Modeling a Life Cycle	and development, reproduction and death. The details of a life cycle are different for
	different organisms. Observations of different life cycles should be made in order to
	identify patterns and recognize similarities and differences. DOK 2

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

Program Components	Kentucky Core Content for Science Assessment
Video Ecosystems All Around	Big Idea: Energy Transformations (Unifying Concepts)
RAF "A Remarkable River"	Academic Expectations
RANF "Ecosystems in Action"	2.1 Students understand scientific ways of thinking and working and use those
TIB pages 26, 27, 28, 29, 30, *31	methods to solve real-life problems.
BLM pages 90, 91, 92, 93, 94, 95,	2.2 Students identify, analyze and use patterns such as cycles and trends to
96, 97, 98, 99	understand past and present events and predict possible future events.
Cards 13, 14, 15, 16, 17, 18, 67, 76,	2.3 Students identify and analyze systems and the ways their components work
77	together or affect each other.
	2.4 Students use the concept of scale and scientific models to explain the
*Hands-On Science Activity	organization and functioning of living and nonliving things and predict other
Caterpillar Camouflage	characteristics that might be observed.
	SC-EP-4.6.1 Students will describe basic relationships of plants and animals in an
	ecosystem (food chains). Plants make their own food. All animals depend on plants.
	Some animals eat plants for food. Other animals eat animals that eat the plants. Basic
	relationships and connections between organisms in food chains can be used to
	discover patterns within ecosystems. DOK 2
	Rig Idea: Interdependence (Unifying Concents)
	Academic Expectations
	2.1 Students understand scientific ways of thinking and working and use those
	methods to solve real-life problems.
	2.2 Students identify, analyze and use patterns such as cycles and trends to
	understand past and present events and predict possible future events.
	2.3 Students identify and analyze systems and the ways their components work
	together or affect each other.
	2.4 Students use the concept of scale and scientific models to explain the
	organization and functioning of living and nonliving things and predict other
	characteristics that might be observed.
	SC-EP-4.7.1 Students will describe the cause and effect relationships existing between
	organisms and their environments. The world has many different environments.
	Organisms require an environment in which their needs can be met. When the
	environment changes some plants and animals survive and reproduce and others die or
	move to new locations. DOK 2

SRA Snapshots Simply Science TM Grade 2		
Earth Science Unit 4: Earth's Natural Resources		
Program Components	Kentucky Core Content for Science Assessment	
Video Earth's Natural Resources RAF "The Missing Rock" RANF "Digging in the Dirt" TIB pages 32, 33, 34, 35, 36, *37 BLM pages 100, 101, 102, 103, 104, 105, 106, 107, 108, 109 Cards 19, 20, 21, 22, 23, 24, 78, 79, 82, 89 *Hands-On Science Activity Hand-Made Fossils	 Big Idea: The Earth and the Universe (Earth/Space Science) Academic Expectations 2.1 Students understand scientific ways of thinking and working and use those methods to solve real-life problems. 2.2 Students identify, analyze and use patterns such as cycles and trends to understand past and present events and predict possible future events. 2.3 Students identify and analyze systems and the ways their components work together or affect each other. SC-EP-2.3.1 Students will describe earth materials (solid rocks, soils, water and gases of the atmosphere) using their properties. Earth materials include solid rocks and soils, water and the gases of the atmosphere. Minerals that make up rocks have properties of color, luster and hardness. Soils have properties of color, texture, the capacity to retain water and the ability to support plant growth. Water on Earth and in the atmosphere can be a solid, liquid or gas. DOK 2 Big Idea: Biological Change (Biological Science) Academic Expectations 2.1 Students understand scientific ways of thinking and working and use those methods to solve real-life problems. 2.2 Students identify, analyze and use patterns such as cycles and trends to understand past and present events and predict possible future events. 2.6 Students understand how living and nonliving things change over time and the factors that influence the changes. SC-EP-3.5.1 Students will describe fossils as evidence of organisms that lived long ago, some of which may be similar to others that are alive today. Fossils found in Earth and trainals provide evidence about organisms that lived long ago and the nature of the environment at that time. Representations of fossils provide the basis for describing and drawing conclusions about the organisms and basic environments represented by theme. 	
SRA Snapshots Simply Science TM Grade 2		
Earth Science Unit 5: Weather and Water		
Program Components	Kentucky Core Content for Science Assessment	

Program Components	Kentucky Core Content for Science Assessment
Video Weather and Water	Big Idea: The Earth and the Universe (Earth/Space Science)
RAF "Felicia and the Four Seasons"	Academic Expectations
RANF "All About Weather!"	2.1 Students understand scientific ways of thinking and working and use those
TIB pages 38, 39, 40, 41, 42, *43	methods to solve real-life problems.
BLM pages 110, 111, 112, 113,	2.2 Students identify, analyze and use patterns such as cycles and trends to
114, 115, 116, 117, 118, 119	understand past and present events and predict possible future events.
Cards 25, 26, 27, 28, 29, 30, 41, 60,	2.3 Students identify and analyze systems and the ways their components work
66, 75, 81, 85, 90	together or affect each other.
	SC-EP-2.3.2 Students will describe patterns in weather and weather data in order to
*Hands-On Science Activity What	make simple predictions based on those patterns discovered. Weather changes from
Can the Wind Blow?	day to day and over seasons. Weather can be described using observations and
	measurable quantities such as temperature, wind direction, wind speed and
	precipitation. Simple predictions can be made by analyzing collected data for patterns.
	DOK 2

SRA Snapshots Simply Science[™] Grade 2 Earth Science Unit 6: Learning About Space

Program Components	Kentucky Core Content for Science Assessment
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 *Hands-On Science Activity <i>Stars</i> <i>in the Day Time</i>	 Big Idea: The Earth and the Universe (Earth/Space Science) Academic Expectations 2.1 Students understand scientific ways of thinking and working and use those methods to solve real-life problems. 2.2 Students identify, analyze and use patterns such as cycles and trends to understand past and present events and predict possible future events. 2.3 Students identify and analyze systems and the ways their components work together or affect each other. SC-EP-2.3.3 Students will describe the properties, locations and real or apparent movements of objects in the sky (Sun, moon). Objects in the sky have properties, locations and real or apparent movements that can be observed and described. Observational data, patterns, and models should be used to describe real or apparent movements. DOK 2 SC-EP-2.3.4 Students will describe the movement of the sun in the sky using evidence of interactions of the sun with the earth (e.g., shadows, position of sun relative to horizon) to identify patterns of movement. Changes in movement of objects in the sky in the same way every day but the Sun's apparent path changes slowly over seasons. Recognizing relationships between movements of objects and resulting phenomena, such as shadows, provides information that can be used to make predictions and draw conclusions about those movements. DOK 2 SC-EP-2.3.5 Students will understand that the moon moves across the sky on a daily basis much like the Sun. The observable shape of the moon can be described as it
	changes from day to day on a cycle that lasts about a month.
SRA Snapshots Simply Science	ce TM Grade 2
Physical Science Unit 7: Char	acteristics of Matter
Program Components	Kentucky Core Content for Science Assessment
Video Characteristics of Matter RAF "Irene's Exploration" RANF "All About Matter" TIB pages 50, 51, 52, 53, 54, *55 BLM pages 130, 131, 132, 133, 134, 135, 136, 137, 138, 139 Cards 37, 38, 39, 40, 41, 42, 56, 66, 89 *Hands-On Science Activity <i>How</i> <i>Much Liquid?</i>	 Big Idea: Structure and Transformation of Matter (Physical Science) Academic Expectations 2.1 Students understand scientific ways of thinking and working and use those methods to solve real-life problems. 2.2 Students identify, analyze and use patterns such as cycles and trends to understand past and present events and predict possible future events. 2.3 Students identify and analyze systems and the ways their components work together or affect each other. 2.4 Students use the concept of scale and scientific models to explain the organization and functioning of living and nonliving things and predict other characteristics that might be observed. SC-EP-1.1.1 Students will classify material objects by their properties providing evidence to support their classifications. Objects are made of one or more materials such as paper, wood, and metal. Objects can be described by the properties of those materials from which they are made. Those properties and measurements of the objects can be used to separate or classify objects or materials. DOK 3 SC-EP-1.1.2 Students will understand that objects have many observable properties such as size, mass, shape, color, temperature, magnetism, and the ability to interact and/or react with other substances. Some properties can be measured using tools such as metric rulers, balances, and thermometers. SC-EP-1.1.3 Students will describe the properties of water as it occurs as a solid, liquid or gas. Matter (water) can exist in different states—solid, liquid or gas.

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

Thysical Science Onit 6. Forces and Worldon		
Program Components	Kentucky Core Content for Science Assessment	
Program Components Video Forces and Motion RAF "Carlos's Skateboard" RANF "Motion, Magnets, and More!" TIB pages 56, 57, 58, 59, 60, *61 BLM pages 140, 141, 142, 143, 144, 145, 146, 147, 148, 149 Cards 43, 44, 45, 46, 47, 48, 71 *Hands-On Science Activity <i>Magnets</i>	Kentucky Core Content for Science AssessmentBig Idea: Motion and Forces (Physical Science)Academic Expectations2.1 Students understand scientific ways of thinking and working and use thosemethods to solve real-life problems.2.2 Students identify, analyze and use patterns such as cycles and trends tounderstand past and present events and predict possible future events.2.3 Students identify and analyze systems and the ways their components worktogether or affect each other.SC-EP-1.2.1 Students will describe and make inferences about the interactions ofmagnets with other magnets and other matter (e.g., magnets can make some thingsmove without touching them). Magnets have observable properties that allow them toattract and repel each other and attract certain kinds of other materials (e.g., iron).Based on the knowledge of the basic properties of magnets, predictions can be madeand conclusions drawn about their interactions with other common objects. DOK 3SC-EP-1-2-2 Students will describe the change in position over time (motion) of anobject. An object's motion can be observed, described, compared and graphed bymeasuring its change in position over time.SC-EP-1.2.3 Students will describe the position and motion of objects and predictchanges in position and motion as related to the strength of pushes and pulls. Theposition and motion of objects can be changed by pushing or pulling and can beexplored in a variety of ways (such as rolling different objects down different ramps).The amount of change in position and motion is related to the strength of the push orpull (force). The force	
	described using phrases such as to the right, to the left, 50 cm from the other object.	
SKA Snapshots Simply Scien	ce ^{1M} Grade 2	
Physical Science Unit 9: Ener	gy Is Everywhere	
Program Components	Kentucky Core Content for Science Assessment	
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	This topic is not covered in the Grade 2 Kentucky Core Content for Science Assessment, however it aligns with National Science Education Content Standard B: Physical Science—Students should develop an understanding of properties of objects and materials, position and motion of objects, and light, heat, electricity, and	
Cards 49, 50, 51, 52, 53, 54	magnetism.	

*Hands-On Science Activity *Heat Energy*