ELEMENTARY SCIENCE GRADE 3 CURRICULUM

Course 50320

Third grade students will review some of the basic principles and practices of science. They will learn vocabulary and principles in a variety of topics from biology, physical science, Earth science, and ecology. Student will conduct simple investigations posing questions, making observations, using scientific tools, collecting data and posing conclusions. Students will use pictures, charts, diagrams, models, and maps to understand and represent scientific concepts.

THIRD GRADESCIENCE OUTLINE:

Goals	Skills	Summative Assessments	Time Frame	Main Resources
 Learn about the adaptations that plants and animals have that enables them to survive in their environment. Understand that each part of a living organism has a specific function. Learn that fossils give us clues to past plants and animals. Explore the properties and characteristics associated with air. Explore the properties and characteristics of light. Learn some of the properties of electricity. 	 Distinguish between a scientific fact and an opinion, providing clear explanations that connect observations and results Observe and record change by using time and measurement. Generate questions about objects, organisms, or events that can be answered through scientific investigations. Select appropriate tools for making observations. 	Chapter Assessments	1-year	Daily Science Grade 3

THIRD GRADESCIENCE MAP:

TIME	BIG IDEAS	CONCEPTS	ESSENTIAL	STANDARDS	OBJECTIVES	DIFFERENTIATION	ASSESSMENT
FRAME			QUESTIONS				
Unit 1(Weeks 1-5)	 Living things have adaptations that help them survive in their environment. 	 Adaptations help plants reproduce Some animals have adapted their body functions to survive Living things develop ways to protect themselves Adaptations of animal behavior help them to survive 	 Why do flowers have different colors and scents? How do dolphins sleep without drowning? Why does a cactus have needles? Why do birds migrate? 	 3.1.3.A1 Describe characteristics of living things that help to identify and classify them. 3.1.3.A2 Describe the basic needs of living things and their dependence on light, food, air, water, and shelter. 3.1.3.A3 Illustrate how plants and animals go through predictable life cycles that include birth, growth, development, reproduction, and death. 3.1.3.A5 Identify the structures in plants that are responsible for food production, support, water transport, reproduction, growth, and protection. 3.1.3.A9 Distinguish between scientific fact and opinion. • Ask questions about objects, organisms, and events. • Understand that all scientific investigations involve asking and answering questions and comparing the answer with what is already known. • Plan and conduct a simple investigations. • Use simple equipment (tools and other technologies) to gather data and understand that this allows scientists to collect more information. • Use 	 The student will identify adaptations of plants and animals. The student will sequence the steps of pollination. The student will create the life cycle of a plant. The student will understand how plants reproduce. The student will classify plants based on characteristics. The student will classify animals as mammal or not. The student will compare and contrast states of matter. The student will analysis the water cycle. The student will recognize and describe the functions of each part of a plant. The student will connect the steps in a process of distributing seeds. The student will predict and discover why birds migrate. The student will conduct an 	Transparencies Workbook Graphic Organizers Vocabulary Cards	Chapter review Activity Rubric Scaffold questions Lesson Checkpoints Chapter Test

	data/evidence to construct	experiment to	
	explanations and understand	demonstrate how	
	that scientists develop	celerv holds	
	explanations based on their	water.	
	evidence and compare them		
	with their current scientific		
	knowledge. • Communicate		
	procedures and explanations		
	giving priority to evidence and		
	understanding that scientists		
	make their results public,		
	describe their investigations so		
	they can be reproduced, and		
	review and ask questions		
	about the work of other		
	scientists.		
	3.1.3.B1		
	Understand that plants and		
	animals closely resemble their		
	parents.		
	3.1.3.B5		
	PATTERNS Identify		
	characteristics that appear in		
	both parents and offspring.		
	21202		
	5.1.5.02 Describe animal		
	characteristics that are		
	necessary for survival		
	nooccoury for our wait		
	S3.A.2.1.1		
	Generate questions about		
	objects, organisms, or events		
	that can be answered through		
	scientific investigations.		
	-		
	S3.A.2.1.2		
	Make predictions based on		
	observations.		
	53.A.2.1.3		
	identify the variables in a		
	simple investigation.		
	S3 A 2 2 1		
	Identify appropriate tools or		
	instruments for specific tasks		
	and describe the information		
	they provide (i.e. measuring		
	[length—ruler: mass— balance		
	Liengui-rulei, mass- baidille	l	1

		scale] and making observations [hand lenses— very small objects]).		
		S3.A.3.1.1 Classify systems as either human-made or natural (e.g., human-made systems [balancing systems, tops, wheel and axle systems, pencil sharpeners from manual to electric]; natural systems [plants, animals, water cycle, stream]).		
		S3.A.3.1.2 Identify changes in natural or human made systems.		
		S3.A.3.2.1 Identify what models represent (e.g., simple maps showing mountains, valleys, lakes, and rivers; dioramas).		
		S3.B.1.1.1 Identify and describe the functions of basic structures of animals and plants (e.g., animals [skeleton, heart, lungs]; plants [roots, stem, leaves]).		
		S3.B.1.1.2 Classify living things based on their similarities and differences.		
		S3.B.1.1.3 Describe the basic needs of plants and animals and their dependence on light, food, air, water, and shelter.		
		S3.B.1.1.4 Describe how plants and animals go through life cycles.		
		S3.B.2.1.1 Identify adaptations of plants and animals that have helped them to survive.		

	S3.B.2.1.2 Identify and describe plant and animal characteristics that are necessary for survival.
	S3.B.2.1.3 Identify characteristics for plant and animal survival in different environments (e.g., desert, forest, ocean).
	S3.B.2.2.1 Identify physical characteristics (e.g., height, hair color, eye color) that could be passed on to offspring.
	S3.B.2.2.2 Identify similar physical characteristics in parents and their offspring.
	S3.B.3.1.1 Identify the living and nonliving components of an ecosystem (e.g., living [plants, animals]; nonliving [water, soil, air]).
	S3.B.3.1.2 Describe the interactions between living and nonliving components of an ecosystem (e.g., plants [water, sunlight]; animals [air, shelter]).
	S3.B.3.2.1 Describe what happens to an animal when its habitat is changed.
	S3.B.3.2.2 Describe how changes in the environment (e.g., fire, flood) can affect an ecosystem.
	S3.B.3.2.3 Describe how human interactions with the environment impact an ecosystem (e.g., road construction, pollution, urban

				development, dam building).			
Unit 2 (Weeks 6-10)	 Plants have many parts. Each part does a special job. 	 The role of roots, stems, leaves, flowers, and fruits How water moves through a plant The way plants distribute seeds The life cycle of plants 	 What's the difference between a fruit and a vegetable? How do plants get water from roots to leaves? Why do dandelions turn white and fluffy? Why do leaves change color in the fall? 	 3.1.3.A2 Describe the basic needs of living things and their dependence on light, food, air, water, and shelter. 3.1.3.A3 Illustrate how plants and animals go through predictable life cycles that include birth, growth, development, reproduction, and death. 3.1.3.A5 Identify the structures in plants that are responsible for food production, support, water transport, reproduction, growth, and protection. 3.1.3.B6 Distinguish between scientific fact and opinion. Ask questions about objects, organisms, and events. Understand that all scientific investigations involve asking and answering questions and comparing the answer with what is already known. Plan and conduct a simple investigations. Use simple equipment (tools and other technologies) to gather data and understand that different questions require different kinds of investigations. Use simple equipment (tools and other technologies) to gather data and understand that different questions require different kinds of investigations. Use simple equipment (tools and other technologies) to gather data and understand that different questions require different kinds of investigations. Use data/evidence to construct explanations and understand that this allows scientists to collect more information than relying only on their senses to gather information. Use data/evidence to construct explanations based on their evidence and compare them with their current scientific knowledge. 	 The student will recognize and describe the functions of each part of a plant. The student will compare and contrast fruits and vegetables. The student will connect the steps in a process of plants getting nutrients. Students will identify the steps in photosynthesis. The student determines the importance of the sun for plants to grow. The student will connect the steps in a process of distributing seeds. The student will connect the steps in here student will connect the steps in photosynthesis. The student will connect the steps in a process of distributing seeds. The student will investigate how water moves through a plant. The student will discover how plants quit making chlorophyll when winter comes and resume production in the spring. 	Transparencies Workbook Graphic Organizers Vocabulary Cards	Chapter review Activity Rubric Scaffold questions Lesson Checkpoints Chapter Test

		Communicate procedures and explanations giving priority to evidence and understanding that scientists make their results public, describe their investigations so they can be reproduced, and review and ask questions about the work of other scientists.		
		3.1.3.C1 Recognize that plants survive through adaptations, such as stem growth towards light and root growth downward in response to gravity.		
		Recognize that many plants and animals can survive harsh environments because of seasonal behaviors (e.g. hibernation, migration, trees shedding leaves).		
		3.2.3.B6 ENERGY Recognize that light from the sun is an important source of energy for living and nonliving systems and some source of energy is needed for all organisms to stay alive and grow.		
		S3.B.1.1.1 Identify and describe the functions of basic structures of animals and plants (e.g., animals [skeleton, heart, lungs]; plants [roots, stem, leaves]).		
		S3.B.1.1.2 Classify living things based on their similarities and differences.		
		S3.B.1.1.3 Describe the basic needs of plants and animals and their dependence on light, food, air, water, and shelter.		

				S3.B.1.1.4 Describe how plants and animals go through life cycles.			
				S3.B.2.1.1 Identify adaptations of plants and animals that have helped them to survive.			
				S3.B.2.1.2 Identify and describe plant and animal characteristics that are necessary for survival.			
				S3.B.2.1.3 Identify characteristics for plant and animal survival in different environments (e.g., desert, forest, ocean). S3.B.2.2.1 Identify physical characteristics (e.g., height, hair color, eye color) that could be passed on to offspring.			
				S3.B.2.2.2 Identify similar physical characteristics in parents and their offspring.			
				S3.B.3.1.1 Identify the living and nonliving components of an ecosystem (e.g., living [plants, animals]; nonliving [water, soil, air]).			
				S3.B.3.1.2 Describe the interactions between living and nonliving components of an ecosystem (e.g., plants [water, sunlight]; animals [air, shelter]).			
				S3.B.3.2.1 Describe what happens to an animal when its habitat is changed.			
Unit 3 (Weeks 11-15)	Fossils tell us about the plants and	1. Fossils are formed in different ways	How does something	3.1.3.C3 CONSTANCY AND CHANGE Recognize that fossils provide	The student will discover what a	Transparencies Workbook	Chapter review Activity Rubric

	animals that lived	2. Many fossils can	become a	us with information about living	fossil is and how		0 "
	long ago.	be found in	TOSSII?	things that inhabited the Earth	It is formed	Graphic Organizers	Scatfold
		sedimentary	Vvnere is the	long ago	I he student will	Vaaabularu Carda	questions
		2 Scientists can	best place to	21204	compare and	vocabulary Cards	Losson
		3. Scientists can determine the	IOOK TOF TOSSIIS?	Distinguish botwoon	contrast the		Chackpointe
		age of fossile	HOW do	contific fact and opinion	fancila		Checkpoints
		from the	SCIENTISTS KNOW		IUSSIIS.		Chapter Test
		sedimentary	now old a lossil	objects organisms and	Ine student will avalara the job of		Chapter Test
		lavers in which	IS?		explore the job of		
		they are found	Vvny are tossils	Linderstand that all scientific			
		4 The movement	or ocean	investigations involve asking	 The student will exemine the 		
		of the Earth's	animais iounu	and answering questions and			
		lavers	today?	comparing the answer with	The student will		
		sometimes	louay :	what is already known.	 The student will identify the three 		
		cause ocean		Plan and conduct a simple	types of rock and		
		fossils to end up		investigation and understand	bow they are		
		on mountains		that different questions require	formed		
				different kinds of	• The student will		
				investigations.	 The student will discover that 		
				Use simple equipment (tools	scientists use		
				and other technologies) to	fossils to		
				gather data and understand	determine the		
				that this allows scientists to	Earth's age		
				collect more information than	 The student will 		
				relying only on their senses to	learn about the		
				gather information.	Farth's		
				Use data/evidence to	movements		
				construct explanations and	causing faults.		
				understand that scientists	 The student will 		
				develop explanations based on	construct a fossil		
				their evidence and compare	from clav.		
				them with their current	 The student will 		
				scientific knowledge.	sequence the		
				Communicate procedures	steps of how		
				and explanations giving priority	mold fossils are		
				to evidence and understanding	made.		
				that scientists make their	 The student 		
				investigations on they can be	differentiates		
				reproduced and review and	between eroding		
				ask questions about the work	and digging.		
				of other scientists	 The student label 		
				of other scientists.	the three layers		
				S3 D 1 1 1	of Earth.		
				Recognize that rock is	 The student will 		
				composed of different kinds of	sequence the		
				minerals	order of events		
					telling how		
					oceans were		
					formed.		
Unit 4	 Air is a gas that 	1. What the	 Why can't you 	3.2.3.A2	 The student will 	Transparencies	Chapter review

(Mooke	surrounds us takes	atmosphoro is	broatha in	Pocognize that all objects and	compare and		
16-20)	un space and	made of and		materials in the world are	contrast states of	Workbook	Activity Rubric
10-20)	creates weather	what it does		made of matter	matter	WORKBOOK	Activity Rublic
	creates weather.	2 What air	• why does a		The student will	Craphia Organizara	Sooffold
			can of soda	Demonstrate how besting and	The student will	Graphic Organizers	Scallolu
			sometimes	Demonstrate now nearing and	Identify the three	Maaabulan (Canda	questions
		3. How wind is	explode when	cooling may cause changes in	states of matter.	vocabulary Cards	1
		created in the	you open it?	the properties of materials	 The student will 		Lesson
		atmosphere	 Where does 	including phase changes.	understand what		Checkpoints
		4. How some	wind come	3.2.3.A5	the atmosphere is		
		properties of air	from?		made of and what		Chapter Test
		affect flight	 How do birds 	CONSTANCY AND CHANGE	it does.		
			fly?	Recognize that everything is	 The student will 		
				made of matter.	differentiate		
					between high and		
				3.2.3.A6	low air pressure		
				Distinguish between	systems.		
				scientific fact and opinion.	 The student will 		
				Ask questions about	investigate tools		
				objects, organisms, and	for measuring		
				events.	weather.		
				Understand that all scientific	 The student will 		
				investigations involve asking	explore the job of		
				and answering questions and	a meteorologist.		
				comparing the answer with	 The student will 		
				what is already known.	create a mini-		
				Plan and conduct a simple	tornado in a		
				investigation and understand	bottle using water		
				that different questions require	and circulation.		
				different kinds of	 The student will 		
				investigations.	identify bird		
				Use simple equipment (tools	adaptations.		
				and other technologies) to	 The student will 		
				gather data and understand	label parts of an		
				that this allows scientists to	airplane and		
				collect more information than	show drag, thrust,		
				relying only on their senses to	and lift.		
				gather information.	 The student will 		
					identify what		
				understand that accentiate	gases make up		
				dovelop explanations based on	our atmosphere.		
				their evidence and compare	 The student 		
				them with their current	recognizes how		
				scientific knowledge	gravity works and		
				Communicate procedures	its importance.		
				and explanations giving priority	 The student will 		
				to evidence and understanding	name common		
				that scientists make their	items that require		
				results public describe their	air pressure to		
				investigations so they can be	work.		
				reproduced and review and			
				ask questions about the work			
		l			1		1

32.3.81 32.3.82 Explain how movement can be described in many ways. 32.3.82 Explore energy's ability to cause motion or create change. Explore how energy can be found in moving objects, light, sound, and heat. 3.3.3.44 Connect the various forms of precipitation to the weather in a particular place and time. 3.3.3.45 Explore how enters of its observable properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.2 Classify matter using observable physical properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.3 Classify matter using observable physical properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.4 Responite and identify how
3.2.3 B1 Explore now movement can be described in many ways. 3.2.3 B2 Explore energy's ability to cause motion or create change. Explore how energy can be found in moving objects, light, sound, and heat. 3.3.3.44 Connect the various forms of precipitation to the weather in a particular place and time. 3.3.3.45 Explain how air temperature, moisture, wind speed and direction, and precipitation to the weather in a particular place and time. 3.3.3.45 Explain how air temperature, moisture, state). S3.C.1.11 Describe matter in terms of its observable properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.2 Classify matter using observable physical properties observable progenties observable properties observable progenties observable progenti
S2.2.51 Explain how movement can be described in many ways. 3.2.3.82 Explore energy's ability to cause motion or create change. Explore how energy can be found in moving objects, light, sound, and heat. 3.3.3.44 Connect the various forms of precipitation to the weather in a particular place and time. 3.3.3.45 Explore how are repeated and direction, and precipitation make up the weather in a particular place and time. 3.3.3.45 S3.2.1.1 Describe matter in terms of its observable properties (e.g., weight, mass, shape, size, color, texture, state). S3.2.1.12 Classify matter using observable properties (e.g., weight, mass, shape, size, color, texture, state). S3.2.1.1.3 Classify a substance as a solid, liquid, or gas. S3.2.1.1.4
Explain how movement can be described in many ways. 3.2.3.B2 Explore energy's ability to cause motion or create change. Explore how energy can be found in moving objects, light, sound, and heat. 3.3.3.A4 Connect the various forms of precipitation to the weather in a particular place and time. 3.3.3.A5 Explain how air temperature, moisture, wind speed and direction, and precipitation make up the weather in a particular place and time. S3.C.1.1.1 Describe matter in terms of its observable properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.2 Classify matter using observable properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.3 Classify a substance as a solid, liquid, or gas. S3.C.1.1.4 Recogonize and identify how
described in many ways. 3.2.382 Explore energy's ability to cause motion or create change. Explore how energy can be found in moving objects. light, sound, and heat. 3.3.3.44 Connect the various forms of precipitation to the weather in a a particular place and time. 3.3.3.A5 Explain how air temperature, moisture, wind speed and direction, and precipitation make up the weather in a particular place and time. S3.C.1.1.1 Describe matter in terms of its observable properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.12 Classify matter using observable properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.14 Classify as the properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.14 Classify as utstance as a solid, liquid, or gas. S3.C.1.14 Recogonize and identify how
3.2.3.82 Explore energy's ability to cause motion or create change. Explore how energy can be found in moving objects, light, sound, and heat. 3.3.3.44 Connect the various forms of precipitation to the weather in a jast. 3.3.3.45 Explore how earter in a particular place and time. 3.3.3.45 Explore how earter in a particular place and time. S3.C.1.1.1 Describe matter in terms of its observable properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.3 Classify a substance as a size, color, texture, state). S3.C.1.1.3 Classify canter using observable properties S3.C.1.1.3 Classify a substance as a solid, liquid, or gas. S3.C.1.1.4
Explore energy's ability to cause motion or create change. Explore how energy can be found in moving objects, light, sound, and heat. 3.3.3.44 Connect the various forms of precipitation to the weather in a particular place and time. 3.3.3.45 Explore how energy is the temperature, moisture, wind speed and direction, and precipitation make up the weather in a particular place and time. S3.C.1.1 Describe matter in terms of its observable properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.2 Classify matter using observable properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.3 Classify as ubstance as a solid, liquid, or gas. S3.C.1.1.4
Explore nor create change. Explore how energy can be found in moving objects, light, sound, and heat. 3.33.44 Connect the various forms of precipitation to the weather in a particular place and time. 3.3.3.45 Explain how air temperature, moisture, wind speed and direction, and precipitation make up the weather in a particular place and time. S3.C.1.1.1 Describe matter in terms of its observable properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.2 Classify and properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.3 Classify a substance as a solidi, liquid, or gas. S3.C.1.1.4 Recognize and lightify how
cause motion or create change. Explore how energy can be found in moving objects, light, sound, and heat. 3.3.3.A4 Connect the various forms of precipitation to the weather in a particular place and time. 3.3.3.A5 Explain how air temperature, moisture, wind speed and direction, and precipitation make up the weather in a particular place and time. S.3.C.1.1.1 Describe matter in terms of its observable properties (e.g., weight, mass, shape, size, color, texture, state). S.3.C.1.1.2 Classify matter using observable physical properties (e.g., weight, mass, shape, size, color, texture, state). S.3.C.1.1.3 Classify autostance as a solid, liquid, or gas. S.3.C.1.1.4 Recognize and identify how
Explore how energy can be found in moving objects, light, sound, and heat. 3.3.3.44 Connect the various forms of precipitation to the weather in a particular place and time. 3.3.3.45 Explain how air temperature, moisture, wind speed and direction, and precipitation make up the weather in a particular place and time. S3.C.1.1.1 Describe matter in terms of its observable properties (e.g., weight, mass, shape, size, colort, texture, state). S3.C.1.1.2 Classify matter using observable properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.3 Classify a substance as a solid, liquid, or gas. S3.C.1.1.4 Recognize and identify how
Explore how energy can be found in moving objects, light, sound, and heat. 3.3.3.44 Connect the various forms of precipitation to the weather in a particular place and time. 3.3.3.45 Explain how air temperature, moisture, wind speed and direction, and precipitation make up the weather in a particular place and time. S3.C.1.1.1 Describe matter in terms of its observable properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.2 Classify matter using observable properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.3 Classify a substance as a solid, liquid, or gas. S3.C.1.1.4 Recognize and identify how
Explore how energy can be found in moving objects, light, sound, and heat. 3.3.3.A4 Connect the various forms of precipitation to the weather in a particular place and time. 3.3.3.A5 Explain how air temperature, moisture, wind speed and direction, and precipitation make up the weather in a particular place and time. S3.C.1.1.1 Describe matter in terms of its observable properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.2 Classify matter using observable physical properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.3 Classify a substance as a solid, liquid, or gas. S3.C.1.1.4 Recognize and identify how
Explore how energy can be found in moving objects, light, sound, and heat. 3.3.3.A4 Connect the various forms of precipitation to the weather in a particular place and time. 3.3.3.A5 Explore and time. 3.3.3.A5 Explore and time. 3.3.3.A5 Explore and time. 3.3.3.45 Explore and time. 3.3.46 construct, wind speed and direction, and precipitation make up the weather in a particular place and time. S3.C.1.1 Describe matter in terms of its observable properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.2 Classify matter using observable properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.3 Classify a substance as a sold, liquid, or gas. S3.C.1.4 Recognize and identify how
lound in moving objects, light, 3.3.3.A4 Connect the various forms of precipitation to the weather in a particular place and time. 3.3.3.A5 Explain how air temperature, moisture, wind speed and direction, and precipitation make up the weather in a particular place and time. S3.C.1.1.1 Describe matter in terms of its observable properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.2 Classify matter using observable physical properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.3 Classify a substance as a solid, liquid, or gas. S3.C.1.4 Recognize and identify how
sound, and heat. 3.3.3.A4 Connect the various forms of precipitation to the weather in a particular place and time. 3.3.3.A5 Explain how air temperature, moisture, wind speed and direction, and precipitation make up the weather in a particular place and time. S3.C.1.1 Describe matter in terms of its observable properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.2 Classify matter using observable physical properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.2 Classify a substance as a solid. liquid, or gas. S3.C.1.4 Recognize and identify how
3.3.3.44 Connect the various forms of precipitation to the weather in a particular place and time. 3.3.3.45 Explain how air temperature, moisture, wind speed and direction, and precipitation make up the weather in a particular place and time. S3.C.1.1 Describe matter in terms of its observable properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.12 Classify matter using observable properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.3 Classify a substance as a solid, liquid, or gas. S3.C.1.1.4
Connect the various forms of precipitation to the weather in a particular place and time. 3.3.3.A5 Explain how air temperature, moisture, wind speed and direction, and precipitation make up the weather in a particular place and time. S3.C.1.1.1 Describe matter in terms of its observable properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.2 Classify matter using observable physical properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.3 Classify a substance as a solid, liquid, or gas. S3.C.1.1.4 Recognize and identify how
precipitation to the weather in a particular place and time. 3.3.3.45 Explain how air temperature, moisture, wind speed and direction, and precipitation make up the weather in a particular place and time. S3.C.1.1.1 Describe matter in terms of its observable properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.2 Classify matter using observable physical properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.3 Classify a substance as a solid, liquid, or gas. S3.C.1.1.4 Recognize and identify how
a particular place and time. 3.3.3.A5 Explain how air temperature, moisture, wind speed and direction, and precipitation make up the weather in a particular place and time. S3.C.1.1.1 Describe matter in terms of its observable properties (e.g., weight, mass, shape, size, oolor, texture, state). S3.C.1.1.2 Classify matter using observable physical properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.3 Classify a substance as a solid, liquid, or gas. S3.C.1.1.4 Recognize and identify how
3.3.3.A5 Explain how air temperature, moisture, wind speed and direction, and precipitation make up the weather in a particular place and time. S3.C.1.1.1 Describe matter in terms of its observable properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.2 Classify matter using observable physical properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.3 Classify a substance as a solid, liquid, or gas. S3.C.1.1.4 Recognize and identify how
Explain how air temperature, moisture, wind speed and direction, and precipitation make up the weather in a particular place and time. S3.C.1.1.1 Describe matter in terms of its observable properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.2 Classify matter using observable physical properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.3 Classify a substance as a solid, liquid, or gas. S3.C.1.1.4 Recognize and identify how
moisture, wind speed and direction, and precipitation make up the weather in a particular place and time. S3.C.1.1.1 Describe matter in terms of its observable properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.2 Classify matter using observable physical properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.3 Classify a substance as a solid, liquid, or gas. S3.C.1.1.4 Recognize and identify how
direction, and precipitation make up the weather in a particular place and time. S3.C.1.1.1 Describe matter in terms of its observable properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.2 Classify matter using observable physical properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.3 Classify a substance as a solid, liquid, or gas. S3.C.1.1.4 Recognize and identify how
make up the weather in a particular place and time. S3.C.1.1.1 Describe matter in terms of its observable properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.2 Classify matter using observable physical properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.3 Classify a substance as a solid, liquid, or gas. S3.C.1.1.4 Recognize and identify how
make up the Weather in a particular place and time. S3.C.1.1.1 Describe matter in terms of its observable properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.2 Classify matter using observable physical properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.3 Classify a substance as a solid, liquid, or gas. S3.C.1.1.4 Recognize and identify how
particular place and time. S3.C.1.1.1 Describe matter in terms of its observable properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.2 Classify matter using observable physical properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.3 Classify a substance as a solid, liquid, or gas. S3.C.1.1.4 Recognize and identify how
S3.C.1.1.1 Describe matter in terms of its observable properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.2 Classify matter using observable physical properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.3 Classify a substance as a solid, liquid, or gas. S3.C.1.1.4 Recognize and identify how
Describe matter in terms of its observable properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.2 Classify matter using observable physical properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.3 Classify a substance as a solid, liquid, or gas. S3.C.1.1.4 Recognize and identify how
observable properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.2 Classify matter using observable physical properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.3 Classify a substance as a solid, liquid, or gas. S3.C.1.1.4 Recognize and identify how
weight, mass, shape, size, color, texture, state). S3.C.1.1.2 Classify matter using observable physical properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.3 Classify a substance as a solid, liquid, or gas. S3.C.1.1.4 Recognize and identify how
color, texture, state). S3.C.1.1.2 Classify matter using observable physical properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.3 Classify a substance as a solid, liquid, or gas. S3.C.1.1.4 Recognize and identify how
S3.C.1.1.2 Classify matter using observable physical properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.3 Classify a substance as a solid, liquid, or gas. S3.C.1.1.4 Recognize and identify how
Classify matter using observable physical properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.3 Classify a substance as a solid, liquid, or gas. S3.C.1.1.4 Recognize and identify how
observable physical properties (e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.3 Classify a substance as a solid, liquid, or gas. S3.C.1.1.4 Recognize and identify how
(e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.3 Classify a substance as a solid, liquid, or gas. S3.C.1.1.4 Recognize and identify how
(e.g., weight, mass, shape, size, color, texture, state). S3.C.1.1.3 Classify a substance as a solid, liquid, or gas. S3.C.1.1.4 Recognize and identify how
size, color, texture, state). S3.C.1.1.3 Classify a substance as a solid, liquid, or gas. S3.C.1.1.4 Recognize and identify how
S3.C.1.1.3 Classify a substance as a solid, liquid, or gas. S3.C.1.1.4 Recognize and identify how
Classify a substance as a solid, liquid, or gas. S3.C.1.1.4 Recognize and identify how
solid, liquid, or gas. S3.C.1.1.4 Recognize and identify how
S3.C.1.1.4 Recognize and identify how
Recognize and identify how
water goes through phase
changes (i.e., evaporation.
condensation, freezing, and
melting)
S3 C 1 1 5
Describe how the properties of
matter can be changed (e.g.,
neating, cooling, physical
weathering).
S3.C.2.1.1
Identify basic forms and
sources of energy (e.g., Sun,

S3C212
Identify simple transformations
of energy simple transformations
or energy (e.g., eating root to
get energy, rubbing nands
together to create heat).
S3.C.2.1.3
Identify characteristics of
sound (i.e., pitch, and
loudness).
S3.C.3.1.1
Identify and describe an
object's motion (e.g.
stat/stop up/down left/right
factor/clower containing
source is a spinning).
55.0.5.1.2
Describe an object's position in
terms of its relationship to
another object or stationary
background (e.g., behind,
beside, on top of, above,
below).
S3.D.1.1.1
Recognize that rock is
composed of different kinds of
minerals.
S3.D.1.1.2
Describe the composition of
soil as weathered rock and
decomposed organic material
S3D121
Describe why certain
resources are renewable and
other resources are
Solution Sol
Identify and describe examples
of ronowable and
nonrenewable resources.
S3.D.1.2.3
Describe the ways living things
benefit from the uses of water
resources.
53.D.1.3.1
Identify ways that cause
Earth's surface to be
constantly changing (e.g., wind
and water erosion, contraction
and expansion of surfaces).
S3.D.1.3.2
Distinguish between ways that
tear down the surface of Earth
and those that build up the

				weathering, volcanic activity, earthquakes). S3.D.1.3.3 Distinguish between slow and rapid changes to Earth's surface (i.e., rapid [earthquakes, volcanic activity]; slow [weathering, erosion]). S3.D.2.1.1 Recognize that clouds have different characteristics that relate to different weather conditions. S3.D.2.1.2 Describe how weather variables (i.e., temperature, wind speed, wind direction, and precipitation) are observed and measured. S3.D.2.1.3 Identify appropriate instruments to study and measure weather elements (i.e., thermometer [temperature]; wind vane [wind direction]; anemometer [wind speed]; rain gauge [precipitation]).			
Unit 5 (Weeks 21-25)	Light travels in a straight line until it hits an object. Light can be absorbed, refracted, or reflected.	 Light travels in a ray that passes through translucent objects and is absorbed by opaque objects Light can be absorbed, refracted, and reflected Light travels in a straight line Lenses bend light and magnify or project images 	 Why does it get hot in a car on a sunny day when it's cold outside? Why does a straw look bent in a glass of water? How does a movie projector work? How do mirrors work? 	 3.2.3.B2 Explore energy's ability to cause motion or create change. Explore how energy can be found in moving objects, light, sound, and heat. 3.2.3.B3 Explore temperature changes that result from the addition or removal of heat. 3.2.3.B5 Recognize that light travels in a straight line until it strikes an object or travels from one material to another 3.2.3.B6 ENERGY Recognize that light 	 The student will understand that light is a form of energy that can be absorbed. The student will learn that light travels in a straight line until it hits another object. The student will compare and contrast the terms absorbed, refracted, and reflected. The student will differentiate between translucent and 	Transparencies Workbook Graphic Organizers Vocabulary Cards	Chapter review Activity Rubric Scaffold questions Lesson Checkpoints Chapter Test

 Understand that all scientific investigations involve asking and answering questions and comparing the answer with what is already known. Plana and conduct a simple investigation and understand that different kinds of investigations. Use simple equipment (tools and other technologies) to gather data and understand that and interesties to collect more information than relying only on their senses to gather information. Use data/evidence to construct explanations based on their evidence and compare them with their current scientifist made their evidence and compare them with their current scientifist made their results public, describe their investigations so they can be reproduced, and review and ask questions sout the work of other scientists. S3.C.2.1.1 S3.C.2.1.1<th> source of energy for living and nonliving systems and some source of energy is needed for all organisms to stay alive and grow. 3.2.3.B7 Distinguish between scientific fact and opinion. Ask questions about objects, organisms, and events. Understand that all scientific investigations involve asking and answering questions and comparing the answer with what is already known. Plan and conduct a simple investigations. The student will The student will Surce of energy is needed for all organisms to stay alive and grow. The student will The student will Surce of energy is needed for all organisms to stay alive and grow. The student will Surce of energy is needed for all organisms to stay alive and grow. The student will Surce of energy is needed for all organisms to stay alive and grow. The student will Surce of energy is needed for all organisms to stay alive and grow. The student will Surce of energy is needed for all organisms to stay alive and grow. The student will Surce of energy is needed for all organisms to stay alive and grow. The student will Surce of energy is needed for all organisms is observe and to telescope. The student will Surce of energy is needed for all organisms and everts. The student will The student will</th>	 source of energy for living and nonliving systems and some source of energy is needed for all organisms to stay alive and grow. 3.2.3.B7 Distinguish between scientific fact and opinion. Ask questions about objects, organisms, and events. Understand that all scientific investigations involve asking and answering questions and comparing the answer with what is already known. Plan and conduct a simple investigations. The student will The student will Surce of energy is needed for all organisms to stay alive and grow. The student will The student will Surce of energy is needed for all organisms to stay alive and grow. The student will Surce of energy is needed for all organisms to stay alive and grow. The student will Surce of energy is needed for all organisms to stay alive and grow. The student will Surce of energy is needed for all organisms to stay alive and grow. The student will Surce of energy is needed for all organisms to stay alive and grow. The student will Surce of energy is needed for all organisms to stay alive and grow. The student will Surce of energy is needed for all organisms is observe and to telescope. The student will Surce of energy is needed for all organisms and everts. The student will The student will
---	--

S3.C.2.1.2 Identify simple transformations of energy (e.g., eating food to get energy, rubbing hands together to create heat).			
Unit 6 • Electricity can exist 1. Electricity is a form of energy that can be converted to other forms of energy 2. 3.23.B4 • TI 26-30) a static electricity or a converted to other forms of energy 2. • Where does an electric cords have metal plugs? • Why do electricity. • electricity can be observed as a cortent of power that can be converted to other forms of energy 2. • Electricity can be observed as a cortent energy 4. • Unit 6 • Why do electricity. • Identify and classify objects and materials as magnetic or nor-magnetic. • TI 3. Batteries can create energy 4. • Electricity: • Electricity? • How does a battery make electricity? • How does a battery make electricity? • S3.C.2.1.1 Identify and classify objects and materials as magnetic or nor-magnetic. • TI 3. Batteries can create energy 4. • Electric circuits and switches help control the flow of electricity? • How does a battery make electricity? • How does a battery make electricity? • S3.C.2.1.2 Identify and classify objects or and and state and opinion. Ask questions and to the advections involve asking and answering questions and comparing foot to get energy, nubling hands together to create heat). • Distinguish between scientific fact and opinion. Ask questions and comparing when such and comparing when such as and answering questions and comparing when such as and answering questions and comparison involve asking and answering questions and comparison involve asking and that this allow scientits to collect more information that this alrea	The student will understand that electricity is a type of energy. The student will list items that need electricity to work. The student will recognize that lightning is a form of electricity. The student will define and use the terms atom, proton, and electron. The student will determine when an atom has a positive or negative charge. The student will give examples of static electricity. The student will label a diagram of an atom. The student will examine how an electrical current works. The student will determine materials that are conductors of electricity. The student will determine materials that are insulators. The student will determine materials that are insulators. The student will determine materials that are insulators. The student will determine materials that are insulators. The student will trace the path of electricity from a power plant to a	Transparencies Workbook Graphic Organizers Vocabulary Cards	Chapter review Activity Rubric Scaffold questions Lesson Checkpoints Chapter Test

	understand that scientists develop explanations based on their evidence and compare them with their current scientific knowledge. Communicate procedures and explanations giving priority to evidence and understanding that scientists make their results public, describe their investigations so they can be	 home. The student will understand that electricity flows in a circuit. The student will know that all circuits require a source. The student will use static 	
	investigations so they can be reproduced, and review and ask questions about the work of other scientists.	use static electricity to move metal cans. • The student will label a circuit.	