

Grade Level:		6th Grade				
Subject/Course:		Science				
Month/ Quarter	Topic	Standards	Skills	Resources/Materials/ Activities	Key Terminology	Assessments
1st	Life Science: Classification	RST.6-8.1, RST.6-8.2,RS T.6-8.3, RST.6-8.4, RST.6-8.5, RST.6-8.6,RS T.6-8.7, RST.6-8.8,RS T.6-8.9,	-The student knows that organisms within Earth's biosphere interact with each other and the environment -The student knows that organisms have different characteristics that enable them to live in their environments. -The student knows that organisms can be classified according to structure and function -The student uses simple strategies to determine meaning and increase vocabulary for reading, including the use of prefixes, suffixes, root words, multiple meanings, antonyms, synonyms, and word relationships.	Scott Foresman Science Textbook, Brain Pop, STEM Activities, Science Magazines	Biosphere, adaptation, species, classification, bacteria, fungi, vascular and non vascular plants.	Chapter Test, quizzes, and labs
1st	Life Science: Cells	RST.6-8.1, RST.6-8.2,RS T.6-8.3, RST.6-8.4, RST.6-8.5, RST.6-8.6,RS T.6-8.7, RST.6-8.8,RS T.6-8.9,	-The student knows that many of the basic functions of organisms are carried out by or within cells and are similar in all organisms -The student knows the three parts of the cell theory. -The student knows the function of plant and animal cell parts. -The student knows the basic steps in the processes of mitosis and cell division	Scott Foresman Science Textbook, Brain Pop, STEM Activities, Science Magazines	Organelle, mitochondria, Endoplasmic reticulum, ribosomes, diffusions, osmosis, mitosis, DNA, chromosomes	Chapter Test, quizzes, and labs

1st	Life Science: Microscopes	RST.6-8.1, RST.6-8.2,RS T.6-8.3, RST.6-8.4, RST.6-8.5, RST.6-8.6,RS T.6-8.7, RST.6-8.8,RS T.6-8.9,	-lab safety -microscope functions -power of magnification -microscope optics -microscope focus -dry mount -wet mount -microscope staining	Microscopes, Brain Pop, STEM Activities, Science Magazines	Eyepiece, body tube, coarse/fine adjustment knob, arm, slide, mirror, base, legs, diaphragm, aperture, stage, stage clips, objective lenses, nosepiece	Chapter Test, quizzes, and labs
2nd	Life Science: Biomes	RST.6-8.1, RST.6-8.2,RS T.6-8.3, RST.6-8.4, RST.6-8.5, RST.6-8.6,RS T.6-8.7, RST.6-8.8,RS T.6-8.9,	-The student knows how organisms interact with each other and the environment -The student recognizes that abiotic and biotic factors shape the communities within an ecosystem. -The student knows the major characteristics of land biomes.	Scott Foresman Science Textbook, Brain Pop, STEM Activities, Science Magazines	environment, population, community, ecosystem, abiotic factor, biotic factor, biome	Chapter Test, quizzes, and labs
2nd	Life Science: Ecosystems	RST.6-8.1, RST.6-8.2,RS T.6-8.3, RST.6-8.4, RST.6-8.5, RST.6-8.6,RS T.6-8.7, RST.6-8.8,RS T.6-8.9,	-The student understands that each organism is adapted to survive in its environment. -The student knows that all organisms, including humans, are part of and depend on one global food web. -The student knows that organisms with similar needs may compete for resources. -The student recognizes ways in which organisms interact. -The student knows how nitrogen, carbon, and water cycle through ecosystems.	Scott Foresman Science Textbook, Brain Pop, STEM Activities, Science Magazines	decompose, energy pyramid, competition, symbiosis, parasite, host, succession,	Chapter Test, quizzes, and labs

			-The student knows that ecosystems change over time.			
2nd	Earth Science: Plate Tectonics	RST.6-8.1, RST.6-8.2,RS T.6-8.3, RST.6-8.4, RST.6-8.5, RST.6-8.6,RS T.6-8.7, RST.6-8.8,RS T.6-8.9,	-The student knows the composition of Earth's layers. -The student understands that Earth's crust is made up of moving plates. -The student knows how the theory of plate tectonics explains Earth's features -The student knows the causes and effects of earthquakes and volcanoes	Scott Foresman Science Textbook, Brain Pop, STEM Activities, Science Magazines	crust, mantle, core, lithosphere, continental drift, plate tectonics, plate boundary, fault	Chapter Test, quizzes, and labs
3rd	Earth Science: Reshaping Earth's Surface	RST.6-8.1, RST.6-8.2,RS T.6-8.3, RST.6-8.4, RST.6-8.5, RST.6-8.6,RS T.6-8.7, RST.6-8.8,RS T.6-8.9,	-The student knows how weathering, erosion, and deposition change Earth's features -The student knows that river systems are always changing and that flooding can move sediment to places that generally do not receive sediment -The student knows the characteristics and causes of waves -The student knows how waves and wind erosion change coastlines	Scott Foresman Science Textbook, Brain Pop, STEM Activities, Science Magazines	sediment, weathering, mechanical and chemical weathering, erosion, deposition	Chapter Test, quizzes, and labs
3rd	Earth Science: Earth's Resources	RST.6-8.1, RST.6-8.2,RS T.6-8.3, RST.6-8.4, RST.6-8.5, RST.6-8.6,RS T.6-8.7, RST.6-8.8,RS	-The student knows how to classify natural resources as renewable and nonrenewable. -The student knows how natural resources can be managed. -The student understands that pollution makes resources unavailable or unsuitable for living things.	Scott Foresman Science Textbook, Brain Pop, STEM Activities, Science Magazines	renewable resource, nonrenewable resource, fossil fuel, geothermal energy, coal,	Chapter Test, quizzes, and labs

		T.6-8.9,	<ul style="list-style-type: none"> -The student knows the effects of human activities on resources. -The student can explain the processes by which fossil fuels form and are processed. 		petroleum, natural gas, acid precipitation,	
3rd	Earth Science: Climate & Weather	RST.6-8.1, RST.6-8.2,RS T.6-8.3, RST.6-8.4, RST.6-8.5, RST.6-8.6,RS T.6-8.7, RST.6-8.8,RS T.6-8.9,	<ul style="list-style-type: none"> -The student knows the characteristics of Earth's atmosphere -The student understands the causes of global and local winds -The student knows how clouds and precipitation form -The student knows what tools scientists use to make weather predictions -The student knows the factors that can affect weather and climate -The student understands how to be safe in severe weather 	Scott Foresman Science Textbook, Brain Pop, STEM Activities, Science Magazines	atmosphere, air pressure, humidity, relative humidity, weather, air mass, front, meteorologist, climate	Chapter Test, quizzes, and labs
4th	Physical Science: Matter	RST.6-8.1, RST.6-8.2,RS T.6-8.3, RST.6-8.4, RST.6-8.5, RST.6-8.6,RS T.6-8.7, RST.6-8.8,RS T.6-8.9,	<ul style="list-style-type: none"> -The student knows that matter has properties that can be measured. -The student knows how to investigate and classify the properties of matter as either physical or chemical. -The student knows the characteristics of the four states of matter. -The student understands the differences between physical and chemical changes. 	Scott Foresman Science Textbook, Brain Pop, STEM Activities, Science Magazines	mass, volume, weight, density, physical property, chemical property, condensation, physical change, chemical change,	Chapter Test, quizzes, and labs

4th	Physical Science: Building Blocks of Matter	RST.6-8.1, RST.6-8.2,RS T.6-8.3, RST.6-8.4, RST.6-8.5, RST.6-8.6,RS T.6-8.7, RST.6-8.8,RS T.6-8.9,	<ul style="list-style-type: none"> -The student knows that matter is made of atoms. -The student understands the history of the atomic model -The student describes how matter can be classified as elements, compounds, or mixtures -The student knows the components of a solution. -The student distinguishes between acids and bases 	Scott Foresman Science Textbook, Brain Pop, STEM Activities, Science Magazines	element, periodic table, compound, mixture, solution, solute, solvent, concentration, solubility	Chapter Test, quizzes, and labs
4th	Physical Science: Changing Energy Forms	RST.6-8.1, RST.6-8.2,RS T.6-8.3, RST.6-8.4, RST.6-8.5, RST.6-8.6,RS T.6-8.7, RST.6-8.8,RS T.6-8.9,	<ul style="list-style-type: none"> -The student knows that energy exists in many forms. -The student identifies ways energy changes from one form to another. -The student understands how electricity flows in an electric current. -The student describes magnetic fields and knows Earth is a magnet. -The student knows how electricity and magnetism are related. 	Scott Foresman Science Textbook, Brain Pop, STEM Activities, Science Magazines	energy, kinetic energy, potential energy, electric current, electric circuit, magnetic domain, electric domain, generator	Chapter Test, quizzes, and labs