



Elementary School Teaching and Learning

2022-2023 Scope and Sequence

Science – Grade 3

<h2>LIFE SCIENCE</h2> <p>Units are not taught in the order listed. They are based on the Science Kit Rotation Schedule.</p>	<h3>OVERVIEW</h3>
	<p>In this unit, students will understand the components of the skin, skeletal, and muscular systems. They will focus on each systems' functions, how they are essential for life, and why they are important.</p> <p>Students will also understand how plants survive in their environment. They will focus on how plants adapt to changes in their environment and how different soils affect plant growth.</p>

UNIT	UNIT DURATION	PARENT/FAMILY RESOURCES	NORTH CAROLINA STANDARDS
Structures and Functions of Living Organisms	Approximately 20 days	Skeletal System Muscular System	<p>3.L.1 Understand human body systems and how they are essential for life: protection, movement and support.</p> <p>3.L.1.1 Compare the different functions of the skeletal and muscular system.</p> <p>3.L.1.2 Explain why skin is necessary for protection and for the body to remain healthy.</p>
Ecosystems	Approximately 25 days	Plant Parts Soil	<p>3.L.2 Understand how plants survive in their environments.</p> <p>3.L.2.1 Remember the function of the following plant structures as it relates to the survival of plants in their environments:</p> <ul style="list-style-type: none"> • Roots – absorb nutrients • Stems – provide support • Leaves – synthesize food • Flowers – attract pollinators and produce seeds for reproduction. <p>3.L.2.2 Explain how environmental conditions determine how well plants survive and grow.</p> <p>3.L.2.3 Summarize the distinct stages of the life cycle of seed plants.</p> <p>3.L.2.4 Explain how the basic properties (texture and capacity to hold water) and components (sand, clay and humus) of soil determine the ability of soil to support the growth and survival of many plants.</p>



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<p>PHYSICAL SCIENCE</p> <p>Units are not taught in the order listed. They are based on the Science Kit Rotation Schedule.</p>	<p>OVERVIEW</p>
	<p>In Physical Science, students will be able to independently use their learning to explain the relationship between force and motion, how change impacts matter, and how energy impacts our world.</p>

UNIT	UNIT DURATION	PARENT/FAMILY RESOURCES	NORTH CAROLINA STANDARDS
Forces and Motion	Approximately 15 days	Force and Motion	<p>3.P.1 Understand motion and factors that affect motion.</p> <p>3.P.1.1 Infer changes in speed or direction resulting from forces acting on an object.</p> <p>3.P.1.2 Compare the relative speeds (faster or slower) of objects that travel the same distance in different amounts of time.</p> <p>3.P.1.3 Explain the effect of earth’s gravity on the motion of any object on or near the earth.</p>
Matter: Properties and Change	Approximately 15 days	Matter	<p>3.P.2 Understand the structure and properties of matter before and after they undergo a change.</p> <p>3.P.2.1 Recognize that air is a substance that surrounds us, takes up space and has mass.</p> <p>3.P.2.2 Compare solids, liquids, and gases based on their basic properties.</p> <p>3.P.2.3 Summarize changes that occur to the observable properties of materials when different degrees of heat are applied to them, such as melting ice or ice cream, boiling water or an egg, or freezing water.</p>
Energy: Conservation and Transfer	Approximately 15 days	Energy Energy Transformations	<p>3.P.3 Recognize how energy can be transferred from one object to another.</p> <p>3.P.3.1 Recognize that energy can be transferred from one object to another by rubbing them against each other.</p> <p>3.P.3.2 Recognize that energy can be transferred from a warmer object to a cooler one by contact or at a distance and the cooler object gets warmer</p>



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OVERVIEW

EARTH SCIENCE

Units are not taught in the order listed. They are based on the Science Kit Rotation Schedule.

In Earth Science, students will be able to independently explain the relationships and patterns of objects in our solar system, and the structures of the Earth's surface.

UNIT	UNIT DURATION	PARENT/FAMILY RESOURCES	NORTH CAROLINA STANDARDS
Earth in the Universe	Approximately 20 days	Solar System Shadows Shade Map Find My Shadow	3.E.1 Recognize the major components and patterns observed in the earth/moon/sun system. 3.E.1.1 Recognize that the earth is part of a system called the solar system that includes the sun (a star), planets, and many moons and the earth is the third planet from the sun in our solar system. 3.E.1.2 Recognize that changes in the length and direction of an object's shadow indicate the apparent changing position of the Sun during the day although the patterns of the stars in the sky, to include the Sun, stay the same.
Earth Systems, Structures and Processes	Approximately 25 days	Landforms Oceans Freshwater National Geographic	3.E.2 Compare the structures of the Earth's surface using models or three-dimensional diagrams. 3.E.2.1 Compare Earth's saltwater and freshwater features (including oceans, seas, rivers, lakes, ponds, streams, and glaciers). 3.E.2.2 Compare Earth's land features (including volcanoes, mountains, valleys, canyons, caverns, and islands) by using models, pictures, diagrams, and maps.