



GRADE 3 SCIENCE PACING GUIDE

FIRST QUARTER				
UNIT	PACING	TOPICS	STANDARDS	LEARNING OBJECTIVES
1	1 week	Lesson 1: Properties of Matter	• 3.PS1.3	Students will plan and conduct investigations to observe patterns in how materials can be described and classified by their observable properties.
1	1 week	Lesson 2: Particles of Matter	• 3.PS1.1	Students will use models to show the scale and organization of particles in matter. Students will investigate how the arrangement of particles affect the properties of matter.
1	1 week	Lesson 1: Build with Materials	• 3.PS1.1	Students will construct explanations about how an object made of small pieces can break into pieces and be made into a new object.
1	1 week	Lesson 2: Materials Can Change	• 3.PS1.2	Students will construct an argument from evidence that some changes caused by heating or cooling materials can be reversed and some cannot.
2	1 week	Lesson 1: Electricity and Designing Solutions	• 3.PS2.1	Students will ask questions that can be investigated to explore the effects of electricity on objects.
2	1 week	Lesson 2: Magnetism	• 3.PS2.1 • 3.PS3.3	Students will explain how magnetic forces can be used in designing solutions to problems.
3	1 week	Lesson 1: Sound and Light	• 3.PS3.1	Students will plan and carry out investigations to describe and model how energy transfers with sound and light.
SECOND QUARTER				
UNIT	PACING	TOPICS	STANDARDS	LEARNING OBJECTIVES
3	1 week	Lesson 2: Heat and Motion	• 3.PS3.1	Students will plan and carry out investigations to explain how energy can be transferred by heat.
3	1 week	Lesson 3: Electricity	• 3.PS3.2	Students will use their observations from their investigations to describe how energy is transferred by electric currents.
4	1 week	Lesson 1: Plant Life Cycle	• 3.LS1.1	Students will develop and use models to describe patterns in plant life cycles.
4	1 week	Lesson 2: Structures and Functions of Plants	• 3.LS1.2	Students will construct an argument to explain how plants use their structures to survive, grow, and reproduce.
4	1 week	Lesson 1: Animal Life Cycles	• 3.LS1.1	Students will use models to describe patterns in animal life cycles.
4	1 week	Lesson 2: Structure and Functions of Animals	• 3.LS1.2	Students will construct an argument to explain how animals use their structures to survive, grow, and reproduce.
4	1 week	Lesson 3: Animal Group Survival	• 3.LS2.1	Students will engage in argument to explain how some animals form groups that help them survive.

THIRD QUARTER

UNIT	PACING	TOPICS	STANDARDS	LEARNING OBJECTIVES
5	1 week	Lesson 1: Survival of Organisms	• 3.LS2.1	Students will use evidence to explain what causes organisms to survive in their environment.
5	1 week	Lesson 2: Changes Affect Organisms	• 3.LS4.1	Students will argue from evidence that some animals survive better in certain environments.
5	1 week	Lesson 3: Fossils	• 3.LS4.2	Students will analyze and interpret data about fossils to provide evidence about where they lived long ago.
6	1 week	Lesson 1: Earth's Major Systems	• 3.ESS2.1	Students will use a model to identify matter on Earth as part of Earth's systems.
6	1 week	Lesson 2: Cycles of Matter in Ecosystems	• 3.ESS2.2	Students will develop and use models of how matter cycles through ecosystems. Students will also be able to explain how these cycles affect the ecosystem.
6	1 week	Lesson 3: Energy Transfer in Ecosystems	• 3.ESS2.1 • 3.ESS2.2	Students will develop and use models to show how energy is transferred through an ecosystem.

FOURTH QUARTER

UNIT	PACING	TOPICS	STANDARDS	LEARNING OBJECTIVES
6	1 week	Lesson 1: Weather Patterns	• 3.ESS2.3	Students will analyze and interpret data to describe different weather patterns.
6	1 week	Lesson 2: Weather and Seasons	• 3.ESS2.4	Students will obtain and combine information to describe climate in different regions.
	1 week	TCAP Review	• All standards	Students will review standards for upcoming TNReady assessments.
6	1 week	Lesson 3: Prepare for Natural Hazards	• 3.ESS3.1	Students will design and compare models to explain how to reduce the impact of natural hazards
7	1 week	Lesson 1: The Solar System	• 3.ESS1.1	Students identify Earth's position in the solar system relative to its other objects.
7	1 week	Lesson 2: The Planets	• 3.ESS1.1	Students recognize the major characteristics of all planets and compare and contrast the properties of inner and outer planets.
	1 week	Family Life		Students will discuss family life curriculum per BCS curriculum.