



GRADE 5 SCIENCE PACING GUIDE

FIRST QUARTER				
MODULE	PACING	TOPICS	STANDARDS	LEARNING OBJECTIVES
Matter	3 weeks	1. Physical States	5.PS1.1, 5.ETS2.1	Students can compare and contrast matter based on physical state.
	1.5 weeks	2. Properties of Mixtures	5.PS1.3	Students can demonstrate and explain that some mixtures maintain the physical properties of their substances.
	1.5 weeks	3. Properties of Solutions	5.PS1.2, 5.PS1.3, 5.ETS2.1	Students can compare the properties of substances before and after they combine into a solution.
	1 week	Module Review & Test	5.PS1.1, 5.PS1.2, 5.PS1.3, 5.ETS2.1	Students can demonstrate their knowledge of physical states, properties of mixtures, and properties of solutions.
Force & Motion	2 weeks	1. Balanced & Unbalanced Forces	5. PS2.1, 5.PS2.2	Students can investigate and explain how balanced and unbalanced forces acting on an object cause patterns of motion and transfer of energy.
SECOND QUARTER				
MODULE	PACING	LESSONS	STANDARDS	LEARNING OBJECTIVES
Force & Motion	2 weeks	2. Patterns of Motion	5.PS2.4, 5.ETS1.1	Students can explain how forces can create patterns.
	1 week	Modules Reivew & Test	5.PS2.1, 5.PS2.2, 5.PS2.4	Students can demonstrate their knowledge of balanced forces, unbalanced forces and patterns of motion.
Behaviors & Traits	2 weeks	1. Instinctual Traits & Learned Behaviors	5.LS1.1	Students can explain how instinctual and learned behavioral traits increase chances of survival.
	1 week	2. Inheritance & Variation of Traits	5.LS3.1, 5.LS3.2	Students can differentiate between inherited and acquired physical traits of organisms.
	1 week	3. Biological Change	5.LS4.1	Students can compare and contrast traits that allow living things to survive and reproduce.
	1 week	Module Review & Test	5.LS1.1, 5.LS3.1, 5.LS3.2, 5.LS4.1	Students can demonstrate their knowledge of instinctual traits and learned behaviors, inheritance and variation of traits, and biological change.
THIRD QUARTER				
MODULE	PACING	LESSONS	STANDARDS	LEARNING OBJECTIVES
Earth's Patterns & Movement	2 weeks	1. The Role of Gravity	5.PS2.3, 5.ESS1.4	Students can support an argument that gravity causes objects to be pulled down toward the center of Earth.

	2 weeks	2. Earth's Motion	5.ESS1.3, 5.ESS1.4, 5.ESS1.5	Students can analyze and interpret data to model the movement of Earth in relationship to other objects in space.
	1 week	Module Review & Test	5.PS2.3, 5.ESS1.3, 5.ESS1.4, 5.ESS1.5	Students can demonstrate their knowledge of gravity and the movement of Earth in relationship to other objects in space.
Earth & Space	2 weeks	1. The Milky Way Galaxy	5.ESS1.2	Students can research the Milky Way galaxy and compare it to other galaxies in the universe.
	2 weeks	2. Stars & Their Patterns	5.ESS1.1, 5.ESS1.2, 5.ESS1.6, 5.ETS2.1	Students can support an argument that some stars appear brighter than others due to their relative distances.
	1 week	Module Review & Test	5.ESS1.1, 5.ESS1.2, 5.ESS1.6, 5.ETS2.1	Students can demonstrate their knowledge of the Milky Way galaxy and explain why some stars appear brighter than others.
FOURTH QUARTER				
MODULE	PACING	LESSONS	STANDARDS	LEARNING OBJECTIVES
Physical Science Review	1 week	1. Unit 1: Matter and Forces State Assessment Guide	5.PS1.1, 5.PS1.2, 5.PS1.3, 5.PS2.1, 5.PS2.2, 5.PS2.3, 5.PS2.4	- Students can demonstrate their knowledge of physical states, properties of mixtures, and properties of solutions. - Students can demonstrate their knowledge of balanced forces, unbalanced forces and patterns of motion.
Life Science Review	1 week	1. Unit 2: Behavior and Traits of Living Things State Assessment Guide	5.LS1.1, 5.LS3.1, 5.LS3.2, 5.LS4.1	Students can demonstrate their knowledge of instinctual traits and learned behaviors, inheritance and variation of traits, and biological change.
Earth & Space Science Review	1 week	1. Unit 3: Earth and Space Patterns State Assessment Guide	5.ESS1.1, 5.ESS1.2, 5.ESS1.3, 5.ESS1.4, 5.ESS1.5, 5.ESS1.6	- Students can demonstrate their knowledge of gravity and the movement of Earth in relationship to other objects in space. - Students will demonstrate their knowledge of the Milky Way galaxy and explain why some stars appear brighter than others.
Overall Review	1 week	1. TCAP Grade 5 Science Practice Items	All 5th Grade Science Standards	Students can demonstrate their knowledge of 5th grade science standards.
Family Life	1 week	1. BCS Family Life Curriculum	n/a	Students will participate in BCS approved Family Life Curriculum.
Impact News	4 weeks	1. "Basketball Mania" 2. "Wind Turbine- The Modern-Day Windmill" 3. "Robotics Opens Our Minds to Discovery" 4. "Is Mount Spurr About to Erupt? Scientists Observe Warning Signs" 5. "The Science Behind Waves"	5.ETS1.1, 5.ETS2.1	- Students will plan and carry out tests on one or more elements of a prototype in which variables are controlled and failure points are considered to identify which elements need to be improved. - Students will apply the results of tests to redesign the prototype. - Students will use appropriate tools to make measurements and answer testable questions