

## 5<sup>th</sup> Science Pacing Guide (by quarter)

		Effective August 2009	<b>5<sup>th</sup> Grade Science Curriculum Pacing Guide</b>	
<b>Date Completed</b>	<b>Pacing</b>	<b>SPI</b>	<b>State Performance Indicator</b>	<b>Standard Category</b>
	<b>All</b>	<b>SPI 0507.Inq.1</b>	Select an investigation that could be used to answer a specific question.	Inquiry
	<b>All</b>	<b>SPI 0507.T/E.1</b>	Select a tool, technology, or invention that was used to solve a human problem.	Technology & Engineering
	<b>All</b>	<b>SPI 0507.T/E.2</b>	Recognize the connection between a scientific advance and the development of a new tool or technology.	Technology & Engineering
	<b>4<sup>th</sup> grade/2A</b>	<b>SPI 0507.12.1</b>	Recognize that the earth attracts objects without touching them.	Physical Science
	<b>4<sup>th</sup> grade/1A</b>	<b>SPI 0507.6.1</b>	Distinguish among the planets according to their known characteristics such as appearance, location, composition, and apparent motion.	Earth and Space Science
	<b>4<sup>th</sup> grade/1A</b>	<b>SPI 0507.6.2</b>	Select information from a complex data representation to draw conclusions about the planets.	Earth and Space Science
	<b>4<sup>th</sup> grade/1A</b>	<b>SPI 0507.6.3</b>	Identify methods and tools for identifying star patterns.	Earth and Space Science
	<b>4<sup>th</sup> grade/1A</b>	<b>SPI 0507.7.1</b>	Describe internal forces such as volcanoes, earthquakes, faulting, and plate movements that are responsible for the earth's major geological features such as mountains, valleys, etc.	Earth and Space Science

	<b>1A</b>	<b>SPI 0507.5.2</b>	Explain how fossils provide information about the past.	Life Science
	<b>1B</b>	<b>SPI 0507.8.1</b>	Describe the effects of the oceans on weather and climate.	Earth and Space Science
	<b>1B</b>	<b>SPI 0507.8.2</b>	Explain how mountains affect weather and climate.	Earth and Space Science
	<b>2A</b>	<b>SPI 0507.12.1</b>	Recognize that the earth attracts objects without touching them.	Physical Science
	<b>2A</b>	<b>SPI 0507.9.1</b>	Distinguish between physical and chemical properties.	Physical Science
	<b>2A</b>	<b>SPI 0507.11.1</b>	Explain the relationship that exist among mass, force, and distance traveled.	Physical Science
	<b>2A</b>	<b>SPI 0507.12.2</b>	Identify the force that causes objects to fall to earth.	Physical Science
	<b>2A</b>	<b>SPI 0507.12.3</b>	Use data to determine how shape affects the rate at which a material falls to earth.	Physical Science
	<b>2A</b>	<b>SPI 0507.10.1</b>	Differentiate between potential and kinetic energy.	Physical Science
	<b>2A</b>	<b>SPI 0507.10.2</b>	Use data from an investigation to determine the method by which heat energy is transferred from one object or material to another.	Physical Science
	<b>2B</b>	<b>SPI 0507.9.2</b>	Describe the differences among freezing, melting, and evaporation.	Physical Science
	<b>2B</b>	<b>SPI 0507.9.3</b>	Describe factors that influence the rate at which different types of materials freeze, melt, or evaporate.	Physical Science
	<b>3A</b>	<b>SPI 0507.1.1</b>	Identify major parts of plant cells: nucleus, cell membrane, cell wall, and cytoplasm.	Life Science

	<b>3A</b>	<b>SPI 0507.1.2</b>	Compare and contrast basic structures and functions of plant and animal cells.	Life Science
	<b>3A</b>	<b>SPI 0507.3.1</b>	Identify photosynthesis as the food manufacturing process in plants.	Life Science
	<b>3A</b>	<b>SPI 0507.3.2</b>	Compare how plants and animals obtain energy.	Life Science
	<b>3A</b>	<b>SPI 0507.2.1</b>	Describe the different types of nutritional relationships that exist among organisms.	Life Science
	<b>3A</b>	<b>SPI 0507.2.2</b>	Distinguish among symbiotic, commensal, and parasitic relationships.	Life Science
	<b>3A</b>	<b>SPI 0507.2.3</b>	Use information about the impact of human actions of natural disasters of the environment to support a simple hypothesis, make a prediction, or draw a conclusion.	Life Science
	<b>3B</b>	<b>SPI 0507.4.1</b>	Recognize that information is passed from parent to offspring during reproduction.	Life Science
	<b>3B</b>	<b>SPI 0507.4.2</b>	Distinguish between inherited traits and those that can be attributed to the environment.	Life Science
	<b>3B</b>	<b>SPI 0507.5.1</b>	Identify physical and behavioral adaptations that enable animals such as, amphibians, reptiles, birds, fish, and mammals to survive in a particular environment.	Life Science
	<b>4 6<sup>th</sup> Grade</b>	<b>SPI 0607.12.1</b>	Identify how simple circuits are associated with the transfer of electrical energy when heat, light, sound, and chemical changes are produced.	Physical Science
	<b>4 6<sup>th</sup> Grade</b>	<b>SPI 0607.12.2</b>	Identify materials that can conduct electricity.	Physical Science

	<b>4 6<sup>th</sup> Grade</b>	<b>SPI 0607.10.1</b>	Distinguish among gravitational potential energy, elastic potential energy, and chemical potential energy.	Physical Science
	<b>4 6<sup>th</sup> Grade</b>	<b>SPI 0607.10.2</b>	Interpret the relationship between potential and kinetic energy.	Physical Science