

Transitioning to the New Standards

Where did they go?	Old Standards	Did they stay? If so, what do they look like now?
	SPI 0507.Inq.1 Select an investigation that could be used to answer a specific question.	5.ETS1.1 Research, test, re- test, and communicate a design to solve a problem.
	SPI 0507.T/E.1 Select a tool, technology, or invention that was used to solve a human problem.	5.ETS2.1 Use appropriate measuring tools, simple hand tools, and fasteners to construct a prototype of a new or improved technology.
	SPI 0507.T/E.2 Recognize the connection between a scientific advance and the development of a new tool or technology.	5.ETS2.2 Describe how human beings have made tools and machines (X-ray cameras, microscopes, satellites, computers) to observe and do things that they could not otherwise sense or do at all, or as quickly or efficiently. 5.ETS2.3 Identify how scientific discoveries lead to new and improved technologies.
7 th grade- 7.LS1: From Molecules to Organisms: Structures and Processes	SPI 0507.1.1 Identify the major parts of plant and animal cells such as, the nucleus, cell membrane, cell wall, and cytoplasm.	
7 th grade- 7.LS1: From Molecules to Organisms: Structures and Processes	SPI 0507.1.2 Compare and contrast basic structures and functions of plant and animal cells.	
4 th grade- 4.LS2: Ecosystems: Interactions, Energy, and Dynamics	SPI 0507.2.1 Describe the different types of nutritional relationships that exist among organisms.	
4 th grade- 4.LS2: Ecosystems: Interactions, Energy, and Dynamics 6 th grade- 6.LS2: Ecosystems: Interactions, Energy, and Dynamics	SPI 0507.2.2 Distinguish among symbiotic, commensal, and parasitic relationships.	
4 th grade- 4.LS2: Ecosystems: Interactions, Energy, and Dynamics	SPI 0507.2.3 Use information about the impact of human actions or natural disasters on the environment to support a simple hypothesis, make a prediction, or draw a conclusion.	
4 th grade- 4.LS2: Ecosystems: Interactions, Energy, and Dynamics	SPI 0507.3.1 Identify photosynthesis as the food manufacturing process in plants.	
4 th grade- 4.LS2: Ecosystems: Interactions, Energy, and Dynamics	SPI 0507.3.2 Compare how plants and animals obtain energy.	

	SPI 0507.4.1 Recognize that information is passed from parent to offspring during reproduction.	5.LS3.2 Provide evidence and analyze data that plants and animals have traits inherited from parents and that variations of these traits exist in a group of similar organisms.
	SPI 0507.4.2 Distinguish between inherited traits and those that can be attributed to the environment.	5.LS3.1 Distinguish between inherited characteristics and those characteristics that result from a direct interaction with the environment.
	SPI 0507.5.1 Identify physical and behavioral adaptations that enable animals such as, amphibians, reptiles, birds, fish, and mammals to survive in a particular environment.	5.LS1.1 Compare and contrast animal responses that are instinctual versus those that are gathered through senses, processed, and stored as memories to guide their actions.
4 th grade- 4.LS4: Biological Change: Unity and Diversity	SPI 0507.5.2 Explain how fossils provide information about the past.	
3 rd grade- 3.ESS1: Earth's Place in the Universe	SPI 0507.6.1 Distinguish among the planets according to their known characteristics such as appearance, location, composition, and apparent motion.	
	SPI 0507.6.2 Select information from a complex data representation to draw conclusions about the planets.	5.ESS1.3 Use data to categorize different bodies in our solar system including moons, asteroids, comets, and meteoroids according to their physical properties and motion.
	SPI 0507.6.3 Identify methods and tools for identifying star patterns.	5.ESS1.6 Use tools and describe how stars and constellations appear to move from the Earth's perspective throughout the seasons.
4 th grade- 4.ESS2: Earth's Systems	SPI 0507.7.1 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.	
6 th grade- 6.ESS2: Earth's Systems	SPI 0507.8.1 Describe the effects of the oceans on weather and climate.	
6 th grade- 6.ESS2: Earth's Systems	SPI 0507.8.2 Explain how mountains affect weather and climate.	
7 th grade- 7.PS1: Matter and Its Interactions	SPI 0507.9.1 Distinguish between physical and chemical properties.	5.PS1.1 Analyze and interpret data from observations and measurements of the physical properties of matter to explain phase changes between a solid, liquid, or gas. 5.PS1.4 Evaluate the results of an experiment to determine whether the mixing of two or more substances result in a change of properties.
	SPI 0507.9.2 Describe the differences among freezing, melting, and evaporation.	5.PS1.1 Analyze and interpret data from observations and measurements of the physical properties of matter

		to explain phase changes between a solid, liquid, or gas. 5.PS1.2 Analyze and interpret data to show that the amount of matter is conserved even when it changes form, including transitions where matter seems to vanish.
	SPI 0507.9.3 Describe factors that influence the rate at which different types of material freeze, melt, or evaporate.	5.PS1.3 Design a process to measure how different variables (temperature, particle size, stirring) affect the rate of dissolving solids into liquids.
4 th grade- 4.PS3: Energy 6 th grade- 6.PS3: Energy	SPI 0507.10.1 Differentiate between potential and kinetic energy.	
6 th grade- 6.PS3: Energy	SPI 0507.10.2 Use data from an investigation to determine the method by which heat energy is transferred from one object or material to another.	
	SPI 0507.11.1 Explain the relationship that exist among mass, force, and distance traveled.	5.PS2.1 Test the effects of balanced and unbalanced forces on the speed and direction of motion of objects. 5.PS2.4 Explain the cause and effect relationship between two factors (mass and distance) that affect gravity. 5.PS2.2 Make observations and measurements of an object's motion to provide evidence that pattern can be used to predict future motion.
	SPI 0507.12.1 Recognize that the earth attracts objects without touching them.	5.PS2.3 Use evidence to support that the gravitational force exerted by Earth on objects is directed toward the Earth's center.
	SPI 0507.12.2 Identify the force that causes objects to fall to the earth.	5.PS2.3 Use evidence to support that the gravitational force exerted by Earth on objects is directed toward the Earth's center.
	SPI 0507.12.3 Use data to determine how shape affects the rate at which a material falls to earth.	5.PS2.5 Explain how forces can create patterns within a system (moving in one direction, shifting back and forth, or moving in cycles), and describe conditions that affect how fast or slowly these patterns occur.