



PERRY LOCAL SCHOOLS GUARANTEED AND VIABLE CURRICULUM

Science 5

THEME: Interconnections within Systems

STRAND	EARTH AND SPACE SCIENCE	Report Card Language
TOPIC: Cycles & Patterns in the Solar		
POWER OBJECTIVE #1	Explain the sun's role in the solar system, its relationship to other stars in the universe, and the predictable patterns of motion between the Earth, sun, and other celestial bodies.	
SUPPORTING INDICATORS	5.ESS.1.a Explain that the distance from the sun, size, composition, and movement of each planet are unique.	
	5.ESS.1.b Explain that planets revolve around the sun in elliptical orbits (Earth's orbit is nearly circular).	
	5.ESS.1.c Explain that some planets have moons and/or debris that orbit them.	
	5.ESS.1.d Identify comets, asteroids, and meteoroids, all of which orbit the sun.	
	5.ESS.2.a Understand that the sun appears to be the largest star in the sky because it is the closest star to Earth; however, some stars are larger than the sun, and some stars are smaller.	
	5.ESS.3.a Explain that Earth's revolution around the sun takes approximately 365 days.	
	5.ESS.3.b Explain that Earth completes one rotation on its axis in 24 hours, producing day and night. This rotation makes the sun, stars and moon appear to change position in the sky	
STRAND	PHYSICAL SCIENCE	Report Card Language
TOPIC: Light, Sound & Motion		
POWER OBJECTIVE #2	Describe how the amount of change in the movement of an object is based on the mass of the object and the amount of force exerted.	Describe how the amount of change in the movement of an object is based on the mass of the object and the amount of force exerted.
SUPPORTING INDICATORS	5.PS.1.a Describe how movement can be measured by speed, which is calculated by determining the distance (d) traveled in a period of time (t).	



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	<i>5.PS.1.b Explain that any change in speed or direction of an object requires a force and is affected by the mass of the object and the amount of force applied.</i>	
POWER OBJECTIVE #3	Distinguish between light and sound as forms of energy that behave in predictable ways.	Distinguish between light and sound as forms of energy that behave in predictable ways.
SUPPORTING INDICATORS	<i>5.PS.2.a Explain that light travels and maintains its direction until it interacts with an object or moves from one medium to another, and then it can be reflected, refracted, or absorbed.</i>	
	<i>5.PS.2.b Describe how sound is produced by vibrating objects and requires a medium through which to travel.</i>	
	<i>5.PS.2.c Explain how the rate of vibration is related to the pitch of the sound.</i>	
STRAND	LIFE SCIENCE	Report Card Language
TOPIC: Interactions within Ecosystems		
POWER OBJECTIVE #4	Explain how organisms perform a variety of roles in an ecosystem.	Explain how organisms perform a variety of roles in an ecosystem.
SUPPORTING INDICATORS	<i>5.LS.1.a Categorize populations of organisms by how they acquire energy.</i>	
	<i>5.LS.1.b Identify the relationships among producers, consumers, and decomposers in an ecosystem using food webs.</i>	
POWER OBJECTIVE #5	Understand that all of the processes that take place within organisms require energy.	Understand that all of the processes that take place within organisms require energy.
SUPPORTING INDICATORS	<i>5.LS.2.a Explain that for ecosystems, the major source of energy is sunlight.</i>	
	<i>5.LS.2.b Explain that energy entering ecosystems as sunlight is transferred and transformed by producers into energy that organisms use through the process of photosynthesis.</i>	
	<i>5.LS.2.c Explain that energy is used or stored by the producer and can be passed from organism to organism as illustrated in food webs.</i>	
STRAND	SCIENCE INQUIRY AND APPLICATIONS	Report Card Language



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POWER OBJECTIVE #6	Solve problems and investigate concepts using appropriate scientific processes and safety techniques.	Solve problems and investigate concepts.
SUPPORTING INDICATORS	5.SI.1.a <i>Identify questions that can be answered through scientific investigations.</i>	
	5.SI.1.b <i>Design and conduct a scientific investigation.</i>	
	5.SI.1.c <i>Use appropriate mathematics, tools, and techniques to gather data and information.</i>	
	5.SI.1.d <i>Analyze and interpret data.</i>	
	5.SI.1.e <i>Develop descriptions, models, explanations, and predictions.</i>	
	5.SI.1.f <i>Think critically and logically to connect evidence and explanations.</i>	
	5.SI.1.g <i>Recognize and analyze alternative explanations and predictions.</i>	
	5.SI.1.h <i>Communicate scientific procedures and explanations.</i>	