

FLSD - Science Curriculum Map Grade 7

Week 1	Introduction to the science classroom (lab safety and procedures) 2-4 days				
Weeks 2-4	Introduction to science inquiry and application (up to 15 days/3 weeks) Scientific Method, Metric System, Scientific Tools, Introduction to Data Representation, Observation vs. Inference				
THEMES	THE PHYSICAL SETTING			THE LIVING ENVIRONMENT	
	EARTH AND SPACE SCIENCE		PHYSICAL SCIENCE		LIFE SCIENCE
Order & Organization	This theme focuses on helping students use scientific inquiry to discover patterns, trends, structures and relationships that may be inferred from simple principles. These principles are related to the properties or interactions within and between systems.				
STRAND CONNECTONS	<i>Systems can exchange energy and/or matter when interactions occur within systems and between systems. Systems cycle matter and energy in observable and predictable patterns.</i>				
EARTH AND SPACE SCIENCE (ESS)		PHYSICAL SCIENCE (PS)		LIFE SCIENCE (LS)	
Topic: Cycles and Patterns of Earth and the Moon		Topic: Conservation of Mass and Energy		Topic: Cycles of Matter and Flow of Energy	
This topic focuses on Earth's hydrologic cycle, patterns that exist in atmospheric and oceanic currents, the relationship between thermal energy and the currents, and the relative position and movement of the Earth, sun and moon.		This topic focuses on the empirical evidence for the arrangements of atoms on the Periodic Table of Elements, conservation of mass and energy, transformation and transfer of energy		This topic focuses on the impact of matter and energy transfer within the biotic component of ecosystems.	
CONDENSED CONTENT STATEMENTS					
Weeks 5-6 7.ESS.1	The hydrologic cycle illustrates the changing states of water as it moves through the lithosphere, biosphere, hydrosphere and atmosphere.	Week 20 7.PS.1	Elements can be organized by properties.	Week 30-32 7.LS.1	Energy flows and matter is transferred continuously from one organism to another and between organisms and their physical environments
Week 7-10 7.ESS.2	Thermal-energy transfers in the ocean and the atmosphere contribute to the formation of currents, which influence global climate patterns.	Week 21-23 7.PS.2	Matter can be separated or changed, but in a closed system, the number and types of atoms remains constant.	Week 32-36 7.LS.2	In any particular biome, the number, growth and survival of organisms and populations depend on biotic and abiotic factors. Elements can

					be organized by properties.
Week 11-14 7.ESS.3	The atmosphere has different properties at different elevations and contains a mixture of gases that cycle through the lithosphere, biosphere, hydrosphere and atmosphere.	Week 24-26 7.PS.3	Energy can be transformed or transferred but is never lost.		
Week 15-17 7.ESS.4	The relative patterns of motion and positions of Earth, moon and sun cause solar and lunar eclipses, tides and phases of the moon.	Week 27-29 7.PS.4	Energy can be transferred through a variety of ways.		
Week 18-20 7.ESS.5	The relative positions of Earth and the sun cause patterns we call seasons.				