

**MOBILE COUNTY PUBLIC SCHOOLS
DIVISION OF CURRICULUM & INSTRUCTION
PACING GUIDE AT A GLANCE
Third Quarter**

Subject: Seventh Grade Advanced Life Science
Moodle Password: MCPSS7SCIENCE

Standard #	WEEK	Standards/Objectives	Dates:	
			Taught	Tested
5	Week 19	<p>Examine the cycling of matter between abiotic and biotic parts of ecosystems to explain the flow of energy and the conservation of matter.</p> <p>a. Obtain, evaluate, and communicate information about how food is broken down through chemical reactions to create new molecules that support growth and/or release energy as it moves through an organism.</p> <p>b. Generate a scientific explanation based on evidence for the role of photosynthesis and cellular respiration in the cycling of matter and flow of energy into and out of organisms.</p> <p>https://padlet.com/mcpssscience/science7week19</p>		
5	Week 20	<p>Examine the cycling of matter between abiotic and biotic parts of ecosystems to explain the flow of energy and the conservation of matter.</p> <p>a. Obtain, evaluate, and communicate information about how food is broken down through chemical reactions to create new molecules that support growth and/or release energy as it moves through an organism.</p> <p>b. Generate a scientific explanation based on evidence for the role of photosynthesis and cellular respiration in the cycling of matter and flow of energy into and out of organisms.</p> <p>https://padlet.com/mcpssscience/science7week20</p>		

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6	Week 21	<p>Analyze and interpret data to provide evidence regarding how resource availability impacts individual organisms as well as populations of organisms within an ecosystem.</p> <p>https://padlet.com/mcpssscience/science7week21</p>		
7	Week 22	<p>Use empirical evidence from patterns and data to demonstrate how changes to physical or biological components of an ecosystem (e.g., deforestation, succession, drought, fire, disease, human activities, invasive species) can lead to shifts in populations.</p> <p>https://padlet.com/mcpssscience/science7week22</p>		
8	Week 23	<p>Construct an explanation to predict patterns of interactions in different ecosystems in terms of the relationships between and among organisms (e.g., competition, predation, mutualism, commensalism, and parasitism).</p> <p>https://padlet.com/mcpssscience/science7week23</p>		
9	Week 24	<p>Engage in argument to defend the effectiveness of a design solution that maintains biodiversity and ecosystem services (e.g., using scientific, economic, and social considerations regarding purifying water, recycling nutrients, preventing soil erosion).</p> <p>https://padlet.com/mcpssscience/science7week24</p>		

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			Taught	Tested
10	Week 25	<p>Use evidence and scientific reasoning to explain how characteristic animal behaviors (e.g., building nests to protect young from cold, herding to protect young from predators, attracting mates for breeding by producing special sounds and displaying colorful plumage, transferring pollen or seeds to create conditions for seed germination and growth) and specialized plant structures (e.g., flower brightness, nectar, and odor attracting birds that transfer pollen; hard outer shells on seeds providing protection prior to germination) affect the probability of successful reproduction of both animals and plants.</p> <p>https://padlet.com/mcpssscience/science7week25</p>		

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Standard #	WEEK	Standards/Objectives	Dates:	
			Taught	Tested
11	Week 26	<p>Analyze and interpret data to predict how environmental conditions (e.g., weather, availability of nutrients, location) and genetic factors (e.g., selective breeding of cattle or crops) influence the growth of organisms (e.g., drought decreasing plant growth, adequate supply of nutrients for maintaining normal plant growth, identical plant seeds growing at different rates in different weather conditions, fish growing larger in large ponds than in small ponds).</p> <p>https://padlet.com/mcpssscience/science7week26</p> <p>Construct a design solution for a problem. (Example: You have been named by the mayor to an important committee to study the problem of nonpoint source pollution in your city. Each member of the committee has been assigned the duty to identify at least five nonpoint source pollution problems and make recommendations for controlling each problem.)</p> <p>https://padlet.com/mcpssscience/science7week27Adv</p> <p>EQT review</p> <p>https://padlet.com/mcpssscience/science7week27</p>		
5,6,7,8,9,10 &11	Week 27	<p>EQT</p> <p>https://padlet.com/mcpssscience/science7week28</p>		