## **5th Grade Unit 2: Matter and Energy in Organisms and Ecosystems:**

## **Desired Results Performance Expectations: Transfer** Meaning **ENDURING UNDERSTANDINGS: Crosscutting Concepts 5-PS3-1** Use models to describe that energy Students will understand that... in animals' food (used for body repair, growth, motion, and to maintain body Energy can be transferred in various ways and between objects. • warmth) was once energy from the sun. Matter is transported into, out of, and within systems. • A system can be described in terms of its components and their interactions. • 3-5 ETS1-1 Define a simple design problem reflecting a need or a want that includes Meaning specified criteria for success and constraints on materials, time, or cost. Acquisition **Science and Engineering Practices Disciplinary Core Ideas** Students will be skilled at... 5-LS1-1 Support an argument that plants get Students will know... 1. Use models to describe phenomena. the materials they need for growth chiefly • The energy released [from] food was 2. Support an argument with evidence, from air and water. once energy from the sun that was data, or a model. 3. Science explanations describe the captured by plants in the chemical **3-5 ETS1-2** Generate and compare multiple process that forms plant matter (from mechanisms for natural events. possible solutions to a problem based on how air and water). well each is likely to meet the criteria and Food provides animals with the • constraints of the problem. materials they need for body repair and growth and the energy they need **5-LS2-1** Develop a model to describe the to maintain body warmth and for movement of matter among plants, animals, motion. (secondary) decomposers, and the environment. Plants acquire their material for • 3-5 ETS1-3 Plan and carry out fair tests in growth chiefly from air and water. which variables are controlled and failure The food of almost any kind of animal • points are considered to identify aspects of a can be traced back to plants.

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Evidence			
Evaluation Criteria	Assessment Evidence		
	PERFORMANCE TASK(S): McMillan McGraw-Hill Science, Gizmos, Mobymax		
	OTHER EVIDENCE: Unit assessment		
Learning Plan			
Summary of Key Learning Events and Instruction			