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| **Science – Grade 5 Life Science** |
| **SC.5.8 Matter and Energy in Organisms and Ecosystems** | **Access Points** |
| **Standard / Indicator** | **Extension** |
| SC.5.8.2 Gather and analyze data to communicate understanding of matter and energy in organisms and ecosystems. |   | **A** | **B** | **C** |
| SC.5.8.2.A Use modelsto describe that energy in animals’ food (used for body repair, growth, and motion and to maintain body warmth) was once energy from the sun. | Explain that energy from food is used for body repair, growth, and motion and to maintain body warmth for both animals and humans.  | Describe that energy from food is used by animals and humans for body repair, growth, and motion and to maintain body warmth. | Recognize that animals, including humans, eat food for energy to grow and move. | Recognize that all animals and humans need energy to survive. |
| SC.5.8.2.B Support an argumentthat plants get the materials they need for growth chiefly from air and water. | Use evidence to support the claim that plants get materials for growth from air and water.  | Use data/observation to explain that plants need air and water to live and grow. | Identify water and air as the two materials plants need to live or grow.  | Given an unrelated material and water, recognize that plants need water to live. |
| SC.5.8.2.C Develop a modelto describe the movement of matter among plants, animals, decomposers, and the environment. Assessment does not includemolecular explanations or the biochemical mechanisms of photosynthesis. | Use information and models to describe the flow of matter among plants and animals. | Given information about three organisms (plants, plant-eating animals, and animal-eating animals), describe the flow of matter between them.  | Use a simple food chain to identify the source of food for a given organism. | Given information, recognize that animals depend on other organisms (plants or animals) for food. |