## Middle School Life Sciences 2016

(SCI.MS) Structure, Function, and Information Processing  Grade 7, Science, Unit 1, Structure, Function and Information Processing  (SCI.MS-LS1-1) Conduct an investigation to provide evidence that living things are made of cells, either one cell or many different numbers and types of cells.  Grade 7, Science, Unit 1, Structure, Function and Information Processing  (SCI.MS-LS1-2) Develop and use a model to describe the function of a cell as a whole and ways parts of cells contribute to the function.  Grade 7, Science, Unit 1, Structure, Function and Information Processing  (SCI.MS-LS1-3) Early States and Synthesize information that sensory receptors respond to stimul by sending messages to the groups of cells.  Grade 7, Science, Unit 1, Structure, Function and Information Processing  (SCI.MS-LS1-3) Use argument supported by evidence for how the body is a system of interacting subsystems composed groups of cells.  Grade 7, Science, Unit 1, Structure, Function and Information Processing  (SCI.MS-LS1-3) Use argument supported by evidence for how the body is a system of interacting subsystems composed groups of cells.  Grade 7, Science, Unit 1, Structure, Function and Information Processing  (SCI.MS-LS4-1) Analyze and interpret data for patterns in the fossil record that document the existence, diversity, extinction, and change of life forms throughout the history of life learn under the assumption that natural laws operate today as in the past.  Grade 7, Science, Unit 3, Natural Selection and Adaptations  (SCI.MS-LS4-3) Analyze displays of pictorial data to compare patterns of similarities in the embryological development across multiple species to identify relationships not evident the fully formed anatomy.  Grade 7, Science, Unit 3, Natural Selection and Adaptations  (SCI.MS-LS4-3) Analyze displays of pictorial data to compare patterns of similarities and differences among modern organisms and between modern and fossil ganisms to infer evolutionary relationships.  Grade 7, Science, Unit 3, Natural Selection and A	ept. N	Nov.	Jan.	March	May
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Grade 7, Science, Unit 5, Matter & Energy in Organisms & Ecosysytems					
{SCI.MS-LS2-3} Develop a model to describe the cycling of matter and flow of energy among living and nonliving parts of an ecosystem.					
Grade 7, Science, Unit 5, Matter & Energy in Organisms & Ecosysytems					
{SCI.MS} Interdependent Relationships in Ecosystems					
(SCI.MS-LS2-2) Construct an explanation that predicts patterns of interactions among organisms across multiple ecosystems.					

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Grade 7, Science, Unit 4, Interdependent Relationship in Ecosystems		
{SCI.MS-LS2-5} Evaluate competing design solutions for maintaining biodiversity and ecosystem services.		
Grade 7, Science, Unit 4, Interdependent Relationship in Ecosystems		
{SCI.MS} Growth, Development, and Reproduction of Organisms		
Grade 7, Science, Unit 2, Growth, Devolpment, and Reproduction of Organisms		
{SCI.MS-LS3-1} Develop and use a model to describe why structural changes to genes (mutations) located on chromosomes may affect proteins and may result in harmful,		
beneficial, or neutral effects to the structure and function of the organism.		
Grade 7, Science, Unit 2, Growth, Devolpment, and Reproduction of Organisms		
{SCI.MS-LS3-2} Develop and use a model to describe why asexual reproduction results in offspring with identical genetic information and sexual reproduction results in offspring		
with genetic variation.		
Grade 7, Science, Unit 2, Growth, Devolpment, and Reproduction of Organisms		
{SCI.MS-LS4-5} Gather and synthesize information about the technologies that have changed the way humans influence the inheritance of desired traits in organisms.		
Grade 7, Science, Unit 2, Growth, Devolpment, and Reproduction of Organisms		
{SCI.MS-LS1-5} Construct a scientific explanation based on evidence for how environmental and genetic factors influence the growth of organisms.		
Grade 7, Science, Unit 2, Growth, Devolpment, and Reproduction of Organisms		
{SCI.MS-LS1-4} Use argument based on empirical evidence and scientific reasoning to support an explanation for how characteristic animal behaviors and specialized plant		
structures affect the probability of successful reproduction of animals and plants respectively.		
Grade 7, Science, Unit 2, Growth, Devolpment, and Reproduction of Organisms		