



ADW GRADE 6-8 LIFE SCIENCE STANDARDS: PRIORITY ORDER **2017**

LS.1	Structure and Life Processes of Organisms	Priority*
SC.6-8.LS.1-1	Investigate and observe cells in living organisms and collect evidence showing that all living things are made of cells.	1
SC.6-8.LS.1-2	Develop and use a model to describe the function of a cell as a whole and ways parts of cells contribute to the function.	1
SC.6-8.LS.1-3	Create a model to show how the cells in multicellular organisms repeatedly divide to make more cells for growth and repair as a result of the cell cycle.	1
SC.6-8.LS.1-4	Research and describe the relationships between various cell types, tissues, and organs in human body systems.	1
SC.6-8.LS.1-5	Develop a model to describe how food molecules are produced during photosynthesis and rearranged through chemical reactions to release energy during cellular respiration.	2
SC.6-8.LS.1-6	Investigate how viruses and bacteria affect the human body.	3
LS.2	Inheritance and Variation of Traits	Priority*
SC.6-8.LS.2-1	Obtain, evaluate, and communicate information describing the relationship between genes, chromosomes, and inherited characteristics.	1
SC.6-8.LS.2-2	Construct explanations for how genetic information is transmitted from parent to offspring through reproduction.	1
SC.6-8.LS.2-3	Create and analyze Punnett squares to calculate the probability of specific traits being passed from parents to offspring using different patterns of inheritance.	2
SC.6-8.LS.2-4	Explore and predict the evolutionary relationships between species looking at the anatomical differences among modern organisms and between modern and fossil organisms.	2
SC.6-8.LS.2-5	Gather and synthesize information about how humans alter organisms genetically through a variety of methods.	3



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	MS.LS.3 Interactions, Energy, and Dynamics of Ecosystems	Priority*
SC.6-8.LS.3-1	Develop and use models to describe the cycling of matter and the flow of energy among living and nonliving parts of an ecosystem.	1
SC.6-8.LS.3-2	Examine traits of individuals within a species that may give them an advantage or disadvantage to survive and reproduce in stable or changing environments.	1
SC.6-8.LS.3-3	Analyze and interpret data from observations to compare characteristics of organisms used to classify organisms into domains and kingdoms.	2
SC.6-8.LS.3-4	Develop and use models to explain how organisms interact in a competitive or mutually beneficial relationship for food, shelter, or space.	3
SC.6-8.LS.3-5	Analyze and interpret data to predict how changes in the number of organisms of one species or the introduction of a new species in an environment impact the balance of an ecosystem.	3
	*Priority of Standards: Priority 1: standards that every student is required to achieve by the end of grade 8. Priority 2: standards that students should be able to achieve by the end of grade 8, given sufficient instructional time. Priority 3: standards that support Tier 1 and 2 standards, but that may be omitted if time in the curriculum is insufficient	