ADW Grades 6-8 Life Science Standards 2017

Structure and Function of Organisms	Standard
SC.6-8.LS.1-1	Investigate and observe cells in living organisms and collect evidence to support the claim that all living
	things are made of cells.
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.
SC.6-8.LS.1-3	Construct explanations for how cells in multicellular organisms repeatedly divide to make more cells for
	growth and repair.
SC.6-8.LS.1-4	Research and describe the relationships between various cell types, tissues, and organs in human body
	systems.
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.
SC.6-8.LS.1-6	Investigate how viruses and bacteria affect the human body.
Inheritance and Variation of Traits	Standard
SC.6-8.LS.2-1	Obtain, evaluate, and communicate information describing the relationship between genes,
	chromosomes, and inherited characteristics.
SC.6-8.LS.2-2	Construct explanations for how genetic information is transmitted from parent to offspring through
	reproduction.
SC6-8.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.
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.
SC.6-8.LS.2-5	Gather and synthesize information about how humans alter organisms genetically through a variety of
	methods.
Ecosystems: Interactions, Energy, and	Standard
Dynamics	
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.
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.
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.
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.
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.
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