

Virginia Standards of Learning correlated to
 Reading Essentials in Science
 Perfection Learning Corporation

Biology	Standard of Learning	Earthquakes	Floods	Tornadoes	Hurricanes	Volcanoes	Are We Alone? The Case for Extraterrestrial Life	Inside a Star	Lights in the Sky	Mysteries in Space: Cosmic Puzzles	Telescopes: Exploring the Beyond	Fossils	Geologic Time	Rocks and Minerals	Sedimentary Rocks	The Water Cycle
BIO.1	The student will plan and conduct investigations	X	X	X	X	X				X						
BIO.2	The student will investigate and understand the history of biological concepts.											X				
BIO.3	The student will investigate and understand the chemical and biochemical principles essential for life															
BIO.4	The student will investigate and understand relationships between cell structure and function															

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Biology	Standard of Learning	Adaptations and Survival	Cells	Genetics	Populations and Ecosystems	Staying Alive	Acids and Bases	Atoms, Molecules, and Compounds	Chemical Energy	Chemical Reactions	Mixtures and Solutions
	BIO.1 The student will plan and conduct investigations						X	X	X	X	X
	BIO.2 The student will investigate and understand the history of biological concepts.		X								
	BIO.3 The student will investigate and understand the chemical and biochemical principles essential for life		X		X	X		X			
	BIO.4 The student will investigate and understand relationships between cell structure and function		X								

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	BIO.5 The student will investigate and understand life functions of archaeobacteria, monerans (eubacteria), protists, fungi, plants, and animals including humans												X			
	BIO.6 The student will investigate and understand common mechanisms of inheritance and protein synthesis															
	BIO.7 The student will investigate and understand bases for modern classification systems										X	X				
	BIO.8 The student will investigate and understand how populations change through time										X	X				
	BIO.9 The student will investigate and understand dynamic equilibria within populations, communities, and ecosystems															

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Biology	Standard of Learning	Deserts	Mountains	Oceans	Rivers	Tropical Rain Forests	Classifying Plants and Animals	Food Chains and Webs	How Plants Grow	Life Cycles of Plants and Animals	Under a Microscope	The Circulatory System	The Digestive System	The Nervous System	The Respiratory System	The Skeletal and Muscular Systems
	BIO.5 The student will investigate and understand life functions of archaeobacteria, monerans (eubacteria), protists, fungi, plants, and animals including humans										X					
	BIO.6 The student will investigate and understand common mechanisms of inheritance and protein synthesis															
	BIO.7 The student will investigate and understand bases for modern classification systems					X			X							
	BIO.8 The student will investigate and understand how populations change through time															
	BIO.9 The student will investigate and understand dynamic equilibria within populations, communities, and ecosystems	X	X	X	X	X	X									

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	BIO.5 The student will investigate and understand life functions of archaeobacteria, monerans (eubacteria), protists, fungi, plants, and animals including humans										
	BIO.6 The student will investigate and understand common mechanisms of inheritance and protein synthesis		X	X							
	BIO.7 The student will investigate and understand bases for modern classification systems										
	BIO.8 The student will investigate and understand how populations change through time	X			X	X					
	BIO.9 The student will investigate and understand dynamic equilibria within populations, communities, and ecosystems				X						