Alabama Science AAS

Grade 10

From Molecules to Organisms: Structures and Processes	**1** Recognize organelles (e.g., mitochondria, ribosomes, chloroplasts) and their functions within plant and animal cells. SCI.AAS.B.HS.1
	2a Recognize the structure of DNA, which determines the characteristics of living organisms. SCI.AAS.B.HS.2A
	3 Use a model to illustrate how growth occurs when cells multiply. SCI.AAS.B.HS.3
	3b Identify changes to cell development that may lead to changes in the organism. SCI.AAS.B.HS.3B
	4 Recognize feedback mechanisms (e.g., sweating and shivering) that maintain homeostasis. SCI.AAS.B.HS.4
	5b Recognize the components necessary for plants to produce their own food and oxygen (e.g., water, sunlight, carbon dioxide). SCI.AAS.B.HS.5B
Ecosystems: Interactions, Energy, and Dynamics	**6** Use models to recognize an organism, a population, and an ecosystem. SCI.AAS.B.HS.6
	7 Identify living and nonliving components in an ecosystem. SCI.AAS.B.HS.7
	8 Recognize the relationship between population size and available resources for food and shelter from a graphical representation. SCI.AAS.B.HS.8
	9a Use data to identify the impacts of humans on Alabama ecosystems. SCI.AAS.B.HS.9A
Heredity: Inheritance and Variation of Traits	**11** Recognize that parents and offspring in a population may have different traits. SCI.AAS.B.HS.11
	11b Identify environmental conditions that impact the health of organisms. SCI.AAS.B.HS.11B
Unity and Diversity	**13** Classify organisms into similar groups based on physical characteristics. SCI.AAS.B.HS.13
	15 Identify how changes in the environment can lead to speciation or possible extinction. SCI.AAS.B.HS.15