Arkansas Science

Human Anatomy and Physiology: Grades 9, 10, 11, 12

Adopted 2018

Patterns	HAP-LS1-1AR.	Construct an explanation based on evidence obtained from a variety of sources for the pattern of hierarchical organization of each body system: - Integumentary System - Skeletal System - Muscular System - Respiratory System - Circulatory System - Digestive System - Nervous System - Endocrine System - Lymphatic System - Urinary System - Reproductive Systems HAP-LS1-1AR
Structure and Function	HAP-LS2-1AR.	Develop and use a model to identify and describe the relationship between the structures and physiological processes of each body system: - Integumentary System - Skeletal System - Muscular System - Respiratory System - Circulatory System - Digestive System - Nervous System - Endocrine System - Lymphatic System - Urinary System - Reproductive Systems HAP-LS2-1AR
Scale, Proportion, and Quantity	HAP-LS3-1AR.	Use mathematics and computational thinking to support explanations for physiological processes in body systems. HAP-LS3-1AR
Stability and Change	HAP-LS4-1AR.	Plan and conduct an investigation to provide evidence that feedback mechanisms maintain homeostasis. HAP-LS4-1AR
Cause and Effect	HAP-LS5-1AR.	Argue from evidence the cause(s) for a dysfunction in a body system and the mechanisms by which it occurred. HAP-LS5-1AR
Energy and Matter	HAP-LS6-1AR.	Construct and revise an explanation based on evidence for the cycling of matter and flow of energy among body systems and their associated processes. HAP-LS6-1AR
Systems and System Models	HAP-LS7-1AR.	Develop and use a model to illustrate the interactions between systems that control or affect specific functions within the human body. HAP-LS7-1AR

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Career Exploration with Engineering Practices	**HAP-8-1AR.**	**Obtain, evaluate, and communicate information related to health science professions.** HAP - 8 - 1AR
	HAP-8-2AR.	**Design a solution to a complex real-world problem affecting body systems that can be solved through engineering.** HAP - 8 - 2AR
	HAP-8-3AR.	**Evaluate a solution to a complex real-world human health problem based on prioritized criteria and trade-offs that account for a range of constraints, including cost, safety, reliability, and aesthetics as well as possible social, cultural, and environmental impacts.** HAP - 8 - 3AR