

Human Anatomy & Physiology

Adopted 2019

Obtain, evaluate, and communicate information to analyze anatomical structures of the human body. **SAP1**

- a. Develop and use models to demonstrate the orientation of structures and regions of the human body. **SAP1.A**
- b. Construct an explanation about the relationship between a body structure (i.e., cells, tissues, organs, and organ systems) and its function within the human body. **SAP1.B**

Obtain, evaluate, and communicate information to analyze the structure and function of the integumentary, skeletal, and muscular systems. **SAP2**

- a. Construct an explanation about the relationship between the structures of the integumentary system and their role in protection, eliminating waste products, and regulating body temperature. **SAP2.A**
- b. Develop and use models to relate the structure of the skeletal system to its functional role in movement, protection, and support. **SAP2.B**
- c. Develop and use models to determine the relationship between structures of the muscular system and their role in movement and support. **SAP2.C**
- d. Ask questions about how the interdependence of the integumentary, skeletal, and muscular systems makes support, protection, and movement possible. **SAP2.D**

Obtain, evaluate, and communicate information to explain the coordination of information processing in the endocrine and nervous systems. **SAP3**

- a. Ask questions to investigate how the structures of the nervous system support the function of information processing (detection, interpretation, and response). **SAP3.A**
- b. Analyze and interpret data to explain how the hormones of the endocrine system regulate physical and chemical processes to maintain a stable internal environment. **SAP3.B**
- c. Ask questions about how the interdependence of the endocrine and nervous systems makes information processing (detection, interpretation and response) possible. **SAP3.C**

Obtain, evaluate, and communicate information to analyze the processing of matter and energy in the cardiovascular,

- a. Plan and carry out an investigation to explore the structures and role of the cardiovascular and respiratory systems in obtaining oxygen, transporting nutrients, and removing waste. **SAP4.A**

respiratory, digestive and urinary systems. [SAP4](#)

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- b. Develop and use models to explain the relationship between the structure and function of the digestive and urinary systems as they utilize matter to derive energy and eliminate waste. [SAP4.B](#)**
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- c. Ask questions about the interdependence of the cardiovascular, respiratory, urinary and digestive systems. [SAP4.C](#)**
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Obtain, evaluate, and communicate information to analyze the role of the reproductive system as it pertains to the growth and development of humans. [SAP5](#)

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- a. Ask questions to gather and communicate information about how the structures of the reproductive system allow for production of egg and sperm, fertilization, and the development of offspring. [SAP5.A](#)**
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- b. Develop and use models to describe the stages of human embryology and gestation. [SAP5.B](#)**
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- c. Ask questions about how the reproductive system makes growth and development possible. [SAP5.C](#)**