Cobb County School District 2018-2019

| Anatomy and Physiology Teaching & Learning Framework | | | | | | | |
|--|------------------------|---------------------------|-------------------------|-----------------------------|--------------------------|------|---------------------|
| Unit 1 | Unit 2 | Unit 3 | Unit 4 | Unit 5 | Unit 6 | SLO | Unit 7: |
| 2 weeks BL/4 weeks YR | 3 wks BL/6 wks YR | 2 weeks BL/4 weeks YR | 2 weeks BL/4 weeks YR | 2 weeks BL/4 weeks YR | 2 weeks BL/4 weeks YR | Exam | 3 wks BL/6 wks YR |
| Unit 1: Body | Unit 2: | Unit 3: Nervous | Unit 4: | Unit 5: Immune | Unit 6: Digestive | | Unit 7: |
| Organization and | Protection, | & Endocrine | Cardiovascular | System | and Urinary | | Reproductive |
| Tissues | Support, | System | & Respiratory | SAP4 | Systems | | System |
| SAP1 | Movement | SAP3 | System | | SAP4 | | SAP5 |
| | SAP2, SAP4 | SAI S | SAP4 | | JAI 4 | | 3A1 3 |
| SAP1. Students will analyze | SAP2, SAP4 | SAP3. Students will | SAP4. Students will | SAP4. Students will | SAP4. Students will | | SAP5. Students will |
| anatomical structures in | will analyze the | assess the integration | analyze the physical, | analyze the physical, | analyze the physical, | | analyze the role of |
| relationship to their | interdependence | and coordination of | chemical, and | chemical, and biological | chemical, and | | the reproductive |
| - | of the | | 1 | | 1 | | • |
| physiological functions. | | body functions and | biological properties | properties of process | biological properties of | | system as it |
| a. Apply correct terminology | integumentary, | their dependence on | of process systems as | systems as these relate to | process systems as | | pertains to the |
| when explaining the | skeletal, and | the endocrine and | these relate to | transportation, | these relate to | | growth and |
| orientation of body parts | muscular systems | nervous systems to | transportation, | absorption and excretion, | transportation, | | development of |
| and regions. | as these relate to | regulate physiological | absorption and | including the | absorption and | | humans. |
| b. Investigate the | the protection, | activities. | excretion, including | cardiovascular, | excretion, including the | | a. Explain how the |
| interdependence of the | support and | a. Interpret interactions | the cardiovascular, | respiratory, digestive, | cardiovascular, | | functions of the |
| various body systems to | movement of the | among hormones, | respiratory, digestive, | excretory and immune | respiratory, digestive, | | reproductive organs |
| each other and to the body | human body. | senses, and nerves | excretory and | systems. | excretory and immune | | are regulated by |
| as a whole. | a. Relate the | which make possible | immune systems. | Essential Questions: | systems. | | hormonal |
| c. Explain the role of | structure of the | the | b. Analyze, and | What is immunity? | Essential Questions: | | interactions. |
| homeostasis and its | integumentary | coordination of | explain the | How do barriers function | What is the overall | | b. Describe the |
| mechanisms as these relate | system to its | functions of the body. | relationships between | in defending the body? | function of the | | stages of human |
| to the body as a whole and | functional role in | b. Investigate the | the respiratory and | What are the three lines | digestive system? | | embryology and |
| predict the consequences of | protecting | physiology of | cardiovascular | of defense against | What is the | | gestation including |
| the failure to maintain | the body and | electrochemical | systems as they obtain | infection? What are | composition and | | investigation of |
| homeostasis. | maintaining | impulses and neural | oxygen needed for the | antigens and antibodies? | function of saliva? | | gestational and |
| d. Relate cellular metabolism | homeostasis. | integration and | oxidation of nutrients | What happens when the | How is food mixed and | | congenital |
| and transport to | b. Explain how the | trace the pathway of an | and removal of | immune system is not | moved along the | | disorders, |
| homeostasis and cellular | skeletal structures | impulse, relating | carbon dioxide. | functioning properly? | digestive tract? | | miscarriage, cleft |
| reproduction. | provide support | biochemical changes | d. Examine various | How do vaccines work? | What hormones are | | palate, |
| e. Describe how structure | and protection for | involved in the | conditions that change | How does HIV cause | involved in the | | hydrocephaly, fetal |
| and function are related in | tissues, and | conduction of the | normal body functions | AIDS? | digestive process? | | alcohol syndrome). |
| terms of cell and tissue | function together | impulse. | (e.g. tissue rejection, | d. Examine various | What role does | | c. Describe the |
| types. | with the muscular | c. Describe how the | allergies, injury, | conditions that change | metabolism play in | | stages of |
| | system to make | body perceives internal | diseases and | normal body functions | digestion? What is the | | development from |
| | movements | and external stimuli | disorders) and how | (e.g. tissue rejection, | function of the | | birth to adulthood |
| | possible. | and responds to | the body responds. | allergies, injury, diseases | kidneys? What is urine | | (i.e. neonatal |
| | SAP4e -Describe | maintain a stable | e. Describe the effects | and disorders) and how | composed of? What is | | period, infancy, |
| | the effects of aging | internal environment, | of aging on body | the body responds. | the structure and | | childhood, |
| | on body systems. | as it relates to | systems. | e. Describe the effects of | function of the bladder, | | adolescence and |
| | 31. 202, 3,300113. | biofeedback. | -,5005. | aging on body systems. | ureters, and urethra? | | puberty, & |
| | | 2.3100000000 | | 20.118 011 2027 373101113. | a. etc. o, and arctina; | | maturity. |
| T | :1.1 | l | | upon the concepts addressed | l line a sultana contta | | |

These units were written to build upon concepts from prior units, so later units contain tasks that depend upon the concepts addressed in earlier units.

All units will include the co-requisite **Characteristics of Science Standards** including the **Nature of Science** and **Habits of Mind** elements of the Georgia Performance Stan.