UNIT 1 – BODY PLAN AND ORGANIZATION STANDARDS AND OBJECTIVES

STANDARD

O1 Students will explore careers in health care and describe the body plan and organization and homeostasis.

OBJECTIVES

- 01.01 Students will explore careers in health care.
 - Students will participate in a minimum of four career exploration experiences to investigate a variety of health care careers related to therapeutic services, diagnostic services, health informatics, support services, and biomedical research and development pathways.
- 01.02 Students will provide an oral and/or written report for each career exploration utilizing the report outline located in the MAP curriculum.

Note: Electronically delivered career exploration experiences are permissible.

- 01.03 Contrast the sciences of anatomy and physiology.
- 01.04 Describe the six levels of structural organization of the human body. (chemical, cellular, tissue, organ, system, organism)
- 01.05 Describe metabolism and its anabolic and catabolic processes.
- 01.06 Apply directional terms used in human anatomy. (posterior/anterior, medial/lateral, proximal/distal, superficial/deep, superior/inferior)
- 01.07 Apply commonly used planes to divide the body. (sagittal, midsagittal, transverse [horizontal], frontal [coronal])
- 01.08 Identify the body cavities and locate the following organs within each cavity.
 - Dorsal Cavity
 - Vertebral spinal cord
 - o Cranial brain
 - Ventral Cavity
 - Thoracic heart, lungs
 - o Mediastinum heart, bronchi, esophagus, thymus
 - o Pericardial heart
 - o Pleural lungs
 - Abdominopelvic Cavity liver, spleen, intestines, kidneys, stomach
 - Pelvic intestines, urinary bladder, sex organs

- 01.09 Identify the major organ(s) in each abdominal quadrant.
 - •RUQ right upper quadrant liver, gallbladder, right kidney
 - •RLQ right lower quadrant cecum, appendix, right ovary
 - •LUQ left upper quadrant spleen, stomach, left kidney
 - LLQ left lower quadrant left ovary
- 01.10 Examine the relationship between homeostasis and stress.
- 01.11 Differentiate between negative and positive feedback mechanisms.