



Weekly Activity Design

Course Title: Middle School Human Anatomy, Part 1: Musculoskeletal, Cardiovascular and Digestive Systems.

Learning Objective: At the conclusion of this course, students will be able to identify the anatomical components and functions of the human musculoskeletal, cardiovascular and digestive systems.

Week 1: The Musculoskeletal System	
Terminal Objective: Identify the anatomical components and functions of the human musculoskeletal system.	
Enabling Objective 1.1: To Understand. Students will be able to summarize a carefully-selected reading detailing the anatomical parts and general function of the human musculoskeletal system.	Activity: Memorize a list of vocabulary words defining the parts and functions attributable to the human musculoskeletal system. Read an OER chapter on the musculoskeletal system, and complete accompanying reading comprehension activities. Resource: https://www.ck12.org/book/ck-12-biology/section/21.3/
Enabling Objective 1.2: To Apply. Students will be able to label a diagram of the human musculoskeletal system when offered a blank document.	Activity: Fill in and color code a blank diagram of the human musculoskeletal system. Resource: https://quizlet.com/392988089/muscular-system-part-iii-label-the-muscles-diagram/
Enabling Objective 1.3: To Create. Students will be able to assemble a working model of a working joint to demonstrate understanding of the musculoskeletal system.	Activity: In-person students will work in teams of 2-3 to construct model joints. Remote students will work independently and present their models in online classes or via the discussion board. Resource: https://blog.sonlight.com/muscle-science-activity.html
Assessment: Students will be assessed on their execution and explanation of their musculoskeletal model as presented in a group setting.	

Week 2: The Cardiovascular System

Terminal Objective: Identify the anatomical components and functions of the human cardiovascular system.

Enabling Objective 2.1: To Understand.

Students will be able to summarize a carefully-selected reading detailing the anatomical parts and general function of the human cardiovascular system.

Activity: Memorize a list of vocabulary words defining the parts and functions attributable to the human cardiovascular system. Read an OER chapter on the cardiovascular system, and complete accompanying reading comprehension activities.

Resource:

https://www.ck12.org/biology/cardiovascular-system/lesson/Cardiovascular-System-MS-LS/?referrer=concept_details

Enabling Objective 2.2: To Apply.

Students will be able to label a diagram of the human cardiovascular system when offered a blank document.

Activity: Fill in and color code a blank diagram of the human cardiovascular system.

Resource:

https://askabiologist.asu.edu/sites/default/files/resources/coloring_pages/pdf/aab_human_heart_coloring_worksheet.pdf

Enabling Objective 2.3: To Create.

Students will be able to assemble a working model of a pumping heart to demonstrate understanding of the cardiovascular system.

Activity: In-person students will work in teams of 2-3 to construct a model heart. Remote students will work independently and present their models in online classes or via the discussion board.

Resource: <https://www.youtube.com/watch?v=tqMBLWABMAE>

Assessment: Students will be assessed on their execution and explanation of their cardiovascular model as presented in a group setting.

Week 3: The Digestive System

Terminal Objective: Identify the anatomical components and functions of the human digestive system.

Enabling Objective 3.1: To Understand.

Students will be able to summarize a carefully-selected reading detailing the anatomical parts and general function of the human digestive system.

Activity: Memorize a list of vocabulary words defining the parts and functions attributable to the human digestive system. Read an OER chapter on the digestive system, and complete accompanying reading comprehension activities.

Resource:

https://www.ck12.org/biology/digestive-system/lesson/Human-Digestive-System-MS-LS/?referrer=concept_details

Enabling Objective 3.2: To Apply.

Students will be able to label a diagram of the human digestive system when offered a blank document.

Activity: Fill in and color code a blank diagram of the human digestive system.

Resource:

<https://www.twinkl.com/resource/us2-s-156-human-digestive-system-labeling-activity-sheet>

Enabling Objective 3.3: To Create.

Students will be able to depict the function of the human digestive system.

Activity: In-person students will work in teams of 2-3 to execute a digestive enzymes lab. Remote students will work independently and present their lab results in online classes or via the discussion board.

Resource: https://www.youtube.com/watch?v=ntCh4_nSwSs

Assessment: Students will be assessed on their execution and explanation of their digestive enzymes lab.