



Human Biology and Anatomy 5-6 Syllabus

Course Goals

1 Anatomy

Students learn about the roles of our organ systems and about their substituent organs.

Course Topics

1 Terminology of Anatomy

Students learn the vocabulary used to describe parts and areas of a body.

2 Musculoskeletal System

Students learn about the function and composition of muscles and bones.

3 Nervous System

Students learn about the components of the nervous system, including the brain.

4 Cardiovascular System

Students learn about the components of the cardiovascular system, including the heart.

5 Respiratory System

Students learn about how we breathe and the organs involved.

6 Sensory System

Students learn about the function and components of our eyes, ears, nose, and mouth.

7 Immune System

Students learn about the components of the immune system and how it helps to fight disease.

8 Gastrointestinal System

Students learn about how food is digested, absorbed, and used in the body.

9 Medical Simulations

Students learn how to identify which body system(s) are affected based on a trauma case.

Course Schedule

Day 1

Intro to Course

Students introduced to the instructor and to the material they will learn throughout the course.

Anatomic Terms

Students become familiar with the terms used to describe organ placements.

Tissue

Students learn about different types of tissue that can be found in the body.

Anatomy Activity

Students apply the knowledge they've gained about anatomic terms and tissue.

Cut-Outs

Students create cutouts of their bodies to use in future activities.

Day 2

Muscular System

Students discover how muscles work and begin to memorize important ones.

Skeletal System

Students discuss the function of our skeleton and learn important bones.

Skeletal System Crossword

Students complete an activity to further their understanding of the skeletal system.

Bone and Muscle Placement

Students add bone and muscle cutouts to the cutouts of their bodies.

Day 3

Nervous System Overview

Students learn about the structure of a neuron and about the central nervous system.

Peripheral Nervous System

Students learn about the peripheral nervous system and its subset, the autonomic nervous system.

Reflexes

Students complete various demonstrations of reflexes.

Nervous System Recap

Students complete an activity to review what they have learned about the nervous system.

Nerve Placement

Students add cutouts of nervous system components to the cutouts of their bodies.

Day 4

The Heart

Students learn how the heart moves blood throughout the body.

Blood

Students learn how blood travels through the body.

Respiratory System

Students discover how air flows and how lungs provide oxygen to blood.

Circulo-Respiratory Placement

Students add cutouts of circulatory and respiratory system components to the cutouts of their bodies.

Day 5

Review

Students review the information they have learned throughout the course thus far.

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Medical Simulations

Students analyze medical situations to arrive at a diagnosis and method of treatment.

Day 6

Sensory System

Students learn how each of the sensory organs functions.

Blind Spot and Depth Perception

Students discover their blind spots and how the eyes perceive depth.

Sensory Placement

Students add sensory organs to the cutouts of their bodies.

Immune System

Students learn the components of the immune system.

Day 7

Gastrointestinal System

Students learn about the organs that make up the gastrointestinal system and their functions.

Gastrointestinal System Activities

Students participate in various activities to solidify their understanding of the GI system.

Day 8

Nutrition and Metabolism

Students review what they have learned about the digestive organs and learn how food is metabolized to provide nutrients.

Urinary System

Students learn about the organs of the urinary system and how they work.

Day 9

Review

Students review the information they have learned throughout the course thus far.

Medical Simulations

Students analyze medical situations to arrive at a diagnosis and method of treatment.

Day 10

Final Project

Students write a story that utilizes their knowledge of the organ systems discussed in the course.

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