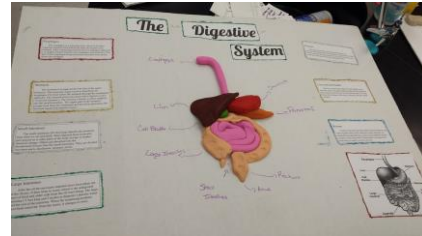
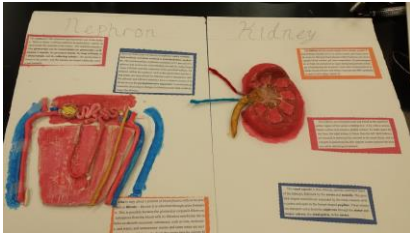


Mini-Project #2

The Urinary and Digestive Systems



Title: - The Urinary & Digestive Systems

Content Area/Topic: -AP Biology; Anatomy & Physiology Honors

Grade Level(s): - 10 - 12

General Objectives

1. Label and describe the different areas of urinary and digestive systems.
2. Label and describe the kidney.
3. Describe the passage of food from the mouth to the anus.
4. Illustrate the flow of urine from the kidney into and out through the urethra.

Description: - This activity requires students to create a labeled 3D model of the urinary system, the kidney, a nephron and the digestive system. Students are to indicate how they work. Students, to show how the pathway of food into the mouth through the anus and the flow of urine from the kidney in and out of the urethra.

Instruction: -Students are to thoroughly study and investigate the urinary and digestive systems. Students are to then create a 3D labeled diagram of the urinary system, the digestive system **AND** a detailed 3D model of the **kidney AND a nephron**. Students are also to label the major organs/parts of both systems.

Assessment: -Models will be assessed with a teacher-developed rubric based on quality of research, collaboration and quality of their structures. Students will also be assessed on their knowledge of the body systems, the pathway of food, the enzymes involved in breaking down food at various locations throughout the digestive tract and, while using their models of the kidney and nephron, how urine is produced.