

Unit 08: Anatomy and Physiology Digestive

Content Area: **Science**
Course(s): **Generic Course**
Time Period: **Marking Period 3**
Length: **2 weeks**
Status: **Published**

Standards

[LS1.A: Structure and Function](#) (pp. 143-145, NRC, 2012)

- [Systems of specialized cells within organisms help them perform the essential functions of life. \(HS-LS1-1\)](#)
- [Multicellular organisms have a hierarchical structural organization, in which any one system is made up of numerous parts and is itself a component of the next level. \(HS-LS1-2\)](#)
- [Feedback mechanisms maintain a living system's internal conditions within certain limits and mediate behaviors, allowing it to remain alive and functional even as external conditions change within some range. Feedback mechanisms can encourage \(through positive feedback\) or discourage \(negative feedback\) what is going on inside the living system. \(HS-LS1-3\)](#)

SCI.9-12.HS-LS1-1	Construct an explanation based on evidence for how the structure of DNA determines the structure of proteins, which carry out the essential functions of life through systems of specialized cells.
SCI.9-12.HS-LS1-3	Plan and conduct an investigation to provide evidence that feedback mechanisms maintain homeostasis.
SCI.9-12.HS-LS1-2	Develop and use a model to illustrate the hierarchical organization of interacting systems that provide specific functions within multicellular organisms.

Essential Questions

How does the digestive system take in food, break down food into nutrient molecules, absorb molecule into the bloodstream and rid the body of undigestible remains?

Content / Skills

- Analyze the effect of enzymes on the digestive tract
- Describe how the oral cavity relates to the digestive system
- Describe the structure and function of the digestive system
- List and describe the accessory organs of the digestive system
- List the anatomy and physiology of the stomach, small and large intestines
- Dissection of the cat to identify the organs of systems
- Use models to view parts of the digestive tract

