

POGIL Activity on The Digestive System
(Let's go "Down the Hatch!")

Life is organized in the following levels: Chemical Level, Cellular Level, Tissue Level, Organ Level, Organ System Level, and finally, Organism. In this POGIL, we will explore the Digestive system. Recall that there are four types of macromolecules: Carbohydrates, Lipids, Proteins, and Nucleic Acids. We will be exploring how the digestive system works to break down and absorb these organic compounds for optimal use and remove the waste products that are indigestible.

Objectives:

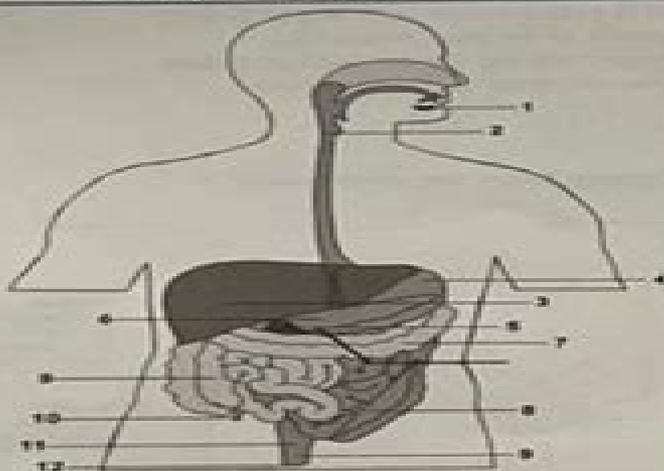
1. Students will be able to describe the overall function of the digestive system.
2. Students will be able to outline the steps of the digestive process and identify major organs associated.

MODEL 1:

10 minutes

Read This!

Our food provides the building blocks that our cells need to perform all the chemical reactions needed to sustain life. Humans have a digestive tract (gut) that runs from the mouth, through the body, and ends at the anus. There are accessory organs that assist in digestion such as the liver, gall bladder, and pancreas. The digestive process involves five activities known as: ingestion (eating), movement of food, digestion (breakdown of food), absorption (taking in nutrients from food), and elimination (removal of waste.)



1. Record the 5 activities of the digestive system and use each term in its own complete sentence. The first one is done for you.

a) Ingestion: The girl smiled as she ingested her ice cream.

b) _____

c) _____

d) _____

e) _____

Word Bank: Liver, tongue/teeth, anus, rectum, colon (large intestine), pancreas, esophagus, stomach, small intestine, appendix, gall bladder

Identify the numbered structures in the model above. Some words may be used more than once!

- | | | |
|----------|----------|-----------|
| 1. _____ | 5. _____ | 9. _____ |
| 2. _____ | 6. _____ | 10. _____ |
| 3. _____ | 7. _____ | 11. _____ |
| 4. _____ | 8. _____ | 12. _____ |

Digestive System Pogil

Padhraic Smyth



Digestive System Pogil:

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