



Name:

Date:

Student Exploration: Digestive System

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Vocabulary: absorption, amino acid, carbohydrate, chemical digestion, chyme, complex carbohydrate, digestion, digestive system, elimination, enzyme, fat, fatty acid, fiber, food calorie, mechanical digestion, monoglyceride, nutrient, peristalsis, protein, starch, sugar, villus

Gizmo Warm-up

The **digestive system** is a group of organs that does three things:

- First, the digestive system breaks food down into useful nutrients, a process called **digestion**.
- Next, the nutrients move into the bloodstream, a process called **absorption**.
- Finally, the leftover waste is removed from the body, a process called **elimination**.

With the *Digestive System* Gizmo, you can arrange the organs of the digestive system any way you like. To begin, look at the organs on the **LARGE ORGANS** tab. Place your cursor over each organ to learn more about it.

1. Which organs allow nutrients to be absorbed?
2. Which organ stores and compacts waste before it is eliminated?
3. Which two organs help to break food down mechanically?

large and small intestine

the rectum

stomach and mouth

Activity A:

Build a digestive system

Get the Gizmo ready:

- If necessary, click **Clear screen**.



Goal: Design your own digestive system.

1. **Explore:** Read the descriptions of the large organs, as well as those of the small organs on the next tab. Fill in the names of the organs that serve the functions listed below:

the large intestine

This organ absorbs water and vitamin K from digested food.

pancreas

This organ produces **enzymes** that break down nutrients.

Answer Key To Digestive System Gizmo

Dr. Tommy Mitchell

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

Answer Key To Digestive System Gizmo:

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The Science of the Digestive System Louise Spilbury, Richard Spilbury, 2017-07-15 Every munch and crunch of our lunch makes its way through our digestive systems How does our body break down food into energy This innovative book gives readers an inside look at this essential bodily process Flowcharts reiterate key concepts at the end of each chapter allowing readers to visualize and retain complex information in a fun way Colorful graphics and easy to understand language ensure this book is both fun and accessible Even readers who are reluctant to study science will enjoy this visually rich playful exploration of the human digestive system This unique approach to science curriculum materials is sure to make this book a favorite in any library

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