



Name:

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Date:

3-18-2022

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

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. Why do we need to eat food?
2. How do you think our bodies break food down into useful **nutrients**?

We need to eat food to survive because it provides us with energy.

Chemicals in our body break down the healthy nutrients from the food we eat and digest and they are put to good use.

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?

Small and large intestine

Rectum

Mouth and stomach

Activity A:

Build a digestive

Get the Gizmo ready:

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



Explore Learning Gizmo Answers Digestive System

Julia Schneider



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