

What Body Parts Enable Digestion Waste Removal and Reproduction



Find the answer to the following question in this lesson and record it here.

If you could see through your body, this might be what you'd see when you look in the mirror. What is the coiled tube inside your belly, and what does it do?

ACTIVE **READING**

Lesson Vocabulary

List the terms. As you learn about each one, make notes in the Interactive Glossary.

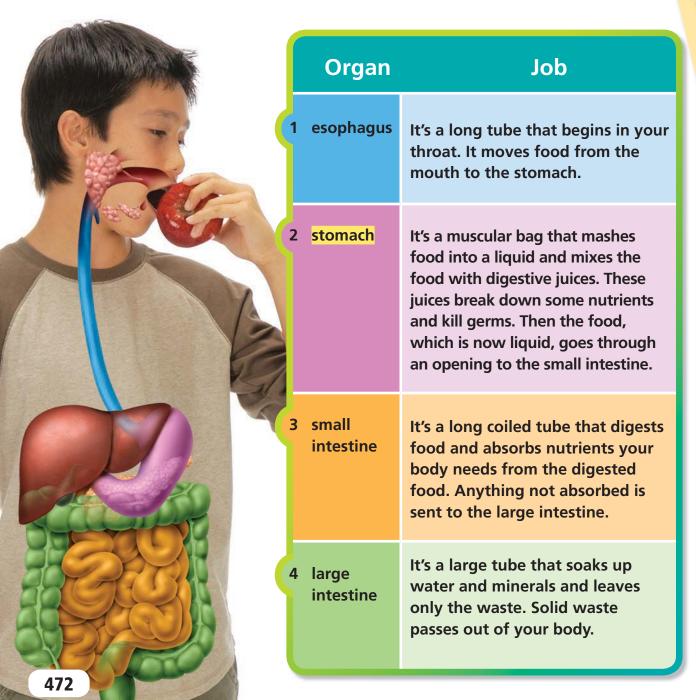
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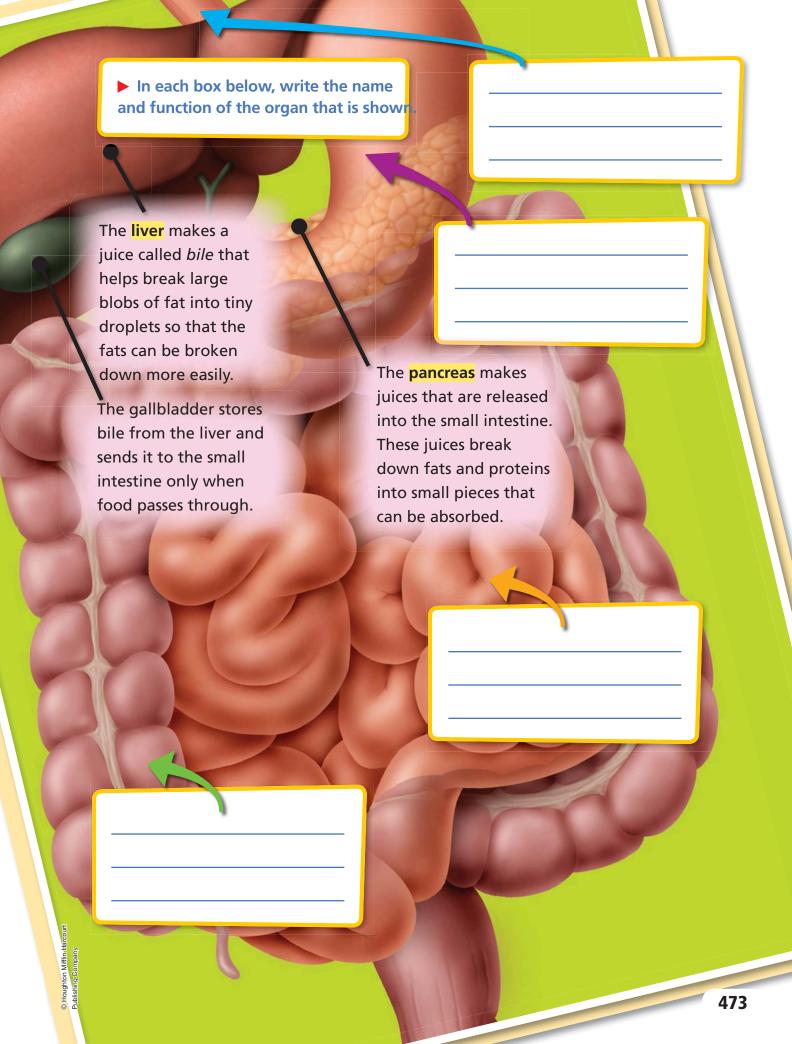
Using Charts

A chart adds information to the text that appears on the page with it. Active readers pause their reading to review the chart and decide how the information in it adds to what they are reading.

Down the Hatch

When you swallow food, it passes through a long tube in your body. As it travels, it is broken down into smaller pieces, and all of the useful parts are absorbed by the body. All that is left over is waste.





Food for Thought

You have two boxes of cereal in your hand. How do you know which is the healthier choice? You can read their food labels to help you decide.

ACTIVE **READING** As you read these two pages, draw a star next to what you consider to be the most important sentence, and be ready to explain why.

that gives you information about what is inside the package. This is called nutrition information. Learning how to use nutrition information can help you make healthy food choices.

Each part of a nutrition label has different information. For example, you can learn how many servings are in the box. You can also learn how many Calories [KAL•uh•reez] each serving has. Calories are a way to measure how much energy your body will get from your food. Carbohydrates, proteins and fats are used by the body for energy.

The nutrition label has information about more than just energy. It also lists the amounts of important nutrients that the food contains. Bones need calcium for strength. Sodium is used by

the nerves to send signals. Vitamin A helps with your eyesight. Protein is used to build muscle. Fats are used to make important chemical signals and to store energy. As you can see, reading food labels can help you make choices that fulfill all of your body's nutrition needs.



Solve Word Problems

One serving of this cereal provides you with 160 mg of sodium. This is 7% of your body's daily needs. How many milligrams of sodium equal 100%?



Serving Size 3/4 cup (30g) Servings Per Container About 14

Amount Per Servi		Corn ınch		with cup nilk
Calories	1	20	16	50 <i> </i>
Calories from Fa	at	15	20	\overline{g}
	%	Daily	Value**	
Total Fat 2g*	3%	,	3%	
Saturated Fat 0g	0%		0%	
Cholesterol 0mg	0%		1%	
Sodium 160mg	7%		9%	
Potassium 65mg	2%	8	%	
Total Carbohydrate 25g	8%	10%	6	
Dietary Fiber 3g				
Sugars 3g				:
Other Carbohydrate 11g		/		

The serving size will help vou make smart decisions about how much of a food you should eat to get the right amount of nutrients in your diet.

with

The "% Daily Value" tells you what percent of this nutrient a serving of this food will provide compared to how much you should get in a full day.

*Amount in Cereal. A serving of cereal plus skim milk provides 2g fat, less 5mg cholesterol, 220mg sodium, 270mg potassium, 31g carbohydrate (19g sugars) and 6g protein.

**Percent Daily Values are based on a 2,000 calorie diet. Your daily values may be higher or lower depending on vour calorie needs:

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<u> </u>	Calories	2,000	2,500
Total Fagt	Less than	65g	80g
^l Sat Faॄt	Less than	20g	<i>25g</i>
Cholesterol	Less than	300mg	300mg
Sodium	Less than	2,400mg	2,400mg
Potassium		3,500mg	3,500mg
otal Carbehydrate		<i>300g</i>	<i>375g</i> /
Dietary F ber	Ž.	25g	<i>30g</i>

Protein 2g

This section shows how many grams (g) or milligrams (mg) of each type of nutrient you should get each day, depending on how many Calories you need.

▶ How many Calories are in 1 serving, with $\frac{1}{2}$ cup skim milk?

aste Removal

Digesting food produces one kind of waste. Using the nutrients produces another. The excretory system rids the body of this waste and keeps your body's water and salt levels in balance.

ACTIVE **READING** As you read this page, underline the different types of waste that are described.

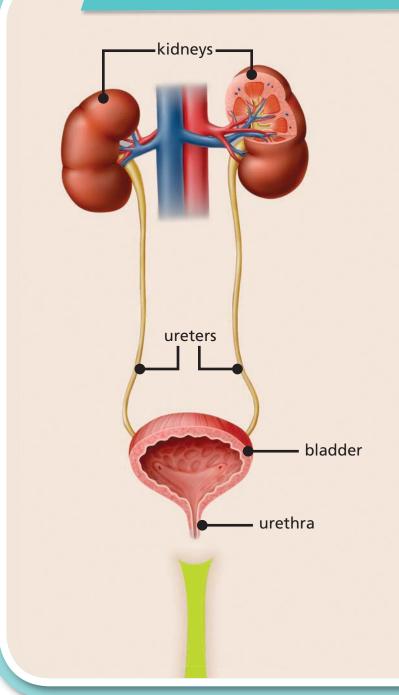
our body "burns" nutrients much like a fire burns wood. Your body doesn't produce ash, but the "burned" nutrients do make waste products. For example, as protein is broken down, ammonia is made. Ammonia is very toxic! The liver converts ammonia to urea [yoo•REE•uh], which is less toxic. But if urea builds up it

makes you sick, so your body gets rid of it as urine. A small amount of urea is also released in sweat.

Like a fire, your body uses oxygen and produces a waste gas called carbon dioxide. Carbon dioxide is released by your lungs when you breathe out.



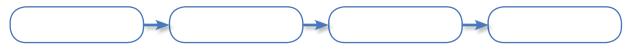
The Urinary System



- The kidneys are organs that remove waste from the blood. They also help to conserve water and to make sure the blood does not have too much or too little salt.
- 2 After the kidneys filter the blood, the waste, urine, collects in tubes called ureters [YUR•ih•tuhrz]. These take the urine to the bladder.
- 3 The bladder stores urine and then releases it from the body. The bladder can stretch like a balloon. It can hold up to a pint at a time!
- 4 The urethra
 [yu•REE•thruh] is a small
 tube that takes urine
 from the bladder to
 outside of the body.

Organize It—Sequence

Write the organs in order to show the path of urine through the urinary system.



Eating and Excreting

All living things use nutrients and produce waste. Living things have many ways of breaking down nutrients and getting rid of waste.



No Stomach? No Problem!

Which two organisms below have no digestive system?

Jellyfish bring food into their mouths to digest it. Then they get rid of the waste by sending it back out of their mouths!

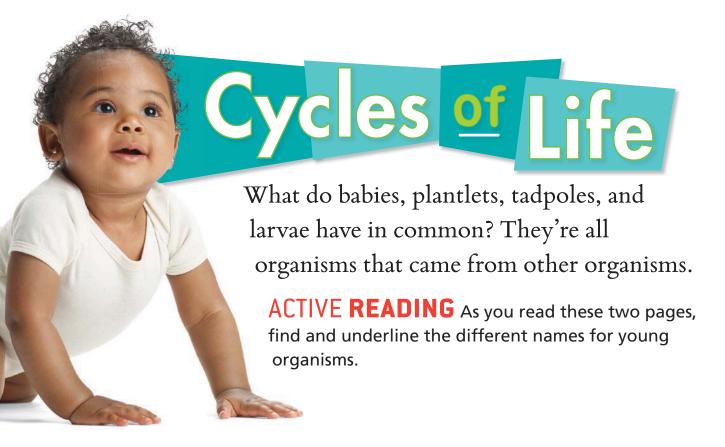




Grass is tough to digest! To get nutrients from grass, cows must chew their food twice and have four sections of stomach! The arrows show the path of food through a cow's digestive system.

Tapeworms have no digestive system. Instead they live inside other animals' digestive systems. As digested food flows past, a tapeworm soaks up nutrients through its skin.





nimals and plants all have reproductive systems. This system has one very important job: to make new organisms.

Human males and females have reproductive organs that make special cells. The male reproductive cells are made in the testes [TES•teez]. Female

reproductive cells are made in the ovaries [OH•vuh•reez]. These reproductive cells join to form an embryo [EM•bree•oh]. The embryo develops in the mother's body for nine months. It grows and changes until it can survive outside the mother's body. At this time, a baby is born.

