



**TEACHER GUIDE**

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- Enter pass code CC4518D



# The Digestive System - Mouth to Stomach

1. Use the dictionary to look up the meanings of the words below. Write the definitions in the space beside each word.

saliva	
secrete	
pouch	
acid	
churn	

2. On the left side, list what you already know about the digestive system. (Hint: it includes the stomach and other organs.) Then, list some questions you might have. Try to list at least three things in each column.

What I Know About the Digestive System	Questions I Have About the Digestive System



# The Digestive System - Mouth to Stomach

The human, like all animals, needs fuel to stay alive. Humans get fuel by eating food. Think about the food you eat. Maybe your favorites include apples, macaroni and cheese, hamburgers or ice cold milk. How can these things feed our tiniest cells? Something must happen to our food to turn it into fuel. This process is called **digestion**. There are four main parts to our digestive system. These are the mouth, stomach, large intestines and small intestines.



## How Do the Mouth and Stomach Work to Begin Digestion?

The **mouth** is where digestion begins. When we take a bite of food we chew it into small pieces. Our teeth bite, grind and rip the food. The muscles of the mouth and **tongue** move the food and mix it with the **saliva** in our mouth. Saliva is a watery liquid that our mouth **secretes** to help digestion. One of the most important jobs of saliva is to start to break **starchy** food (like pasta) down into simple sugars. For the best digestion, food needs to be chewed many times.

**STOP** How do the parts of our mouth help food to digest?

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Next, we swallow the chewed food and it continues on its path to the **stomach**. The food is pushed down our **esophagus** by **involuntary muscles**. Saliva helps here too because it makes food slide down more easily. The stomach is less than two feet below the mouth. The stomach is a pouch of muscle. When it is empty it is about the size of your fist.

Our stomach is very strong and works like a washing machine. The muscular lining churns and squeezes the food to break it down into a liquid. The stomach adds special **chemicals** to help digest the food. These chemicals are very **acidic** (full of acid). The acid helps break the food down fast. Food stays in the stomach for three to six hours. By the time it is ready to leave the stomach it has been turned into a thick liquid.



# The Digestive System - Mouth to Stomach

1. Use the terms in the box to answer each question. Some terms will be left over.

three	churns	four	muscle	football
saliva	nerves	fist	esophagus	

- \_\_\_\_\_ a) What watery liquid helps break down starchy food?
- \_\_\_\_\_ b) What is our stomach made of?
- \_\_\_\_\_ c) What is the name of the tube that leads from our mouth to our stomach?
- \_\_\_\_\_ d) How many main parts are there in the digestive system?
- \_\_\_\_\_ e) How big is the stomach when it is empty?
- \_\_\_\_\_ f) How does the stomach break down food?

2. Fill in each blank with a word from the list. Some words will be left over.

saliva	starch	few	four	teeth	sugar
tongue	many	salt	swallow	intestine	mouth

There are \_\_\_\_\_ main parts to the digestive system. These are the mouth, the stomach, and the large and small \_\_\_\_\_. Digestion begins in the \_\_\_\_\_. Our \_\_\_\_\_ rip and chew our food. Our \_\_\_\_\_ moves the food around in our mouth. \_\_\_\_\_ is the watery liquid that moistens our food and makes it easier to \_\_\_\_\_. Saliva also helps break down \_\_\_\_\_ into \_\_\_\_\_. It is healthiest when we chew our food \_\_\_\_\_ times.



# The Digestive System - Mouth to Stomach

- 3. What kind of muscles line the esophagus?  
\_\_\_\_\_
- 4. How does the stomach digest food?  
\_\_\_\_\_

## Extension & Application


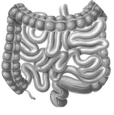






5. Below is a list of words from the reading. Choose SIX words that link together well. Circle them. Then write a paragraph about a piece of pizza that is getting eaten by a hungry classmate. Write your story as if YOU are the piece of pizza! What happens? What would it be like if YOU were a piece of pizza getting eaten by a hungry classmate? Use the facts from the reading and your own ideas. Be creative!

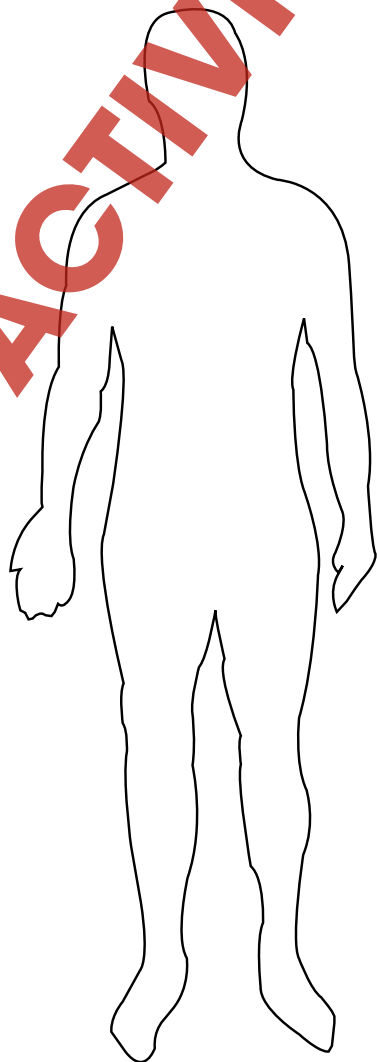
saliva      starch      churn      sugar  
 esophagus      acid      squeeze      tongue  
 swallow      intestine      mouth      chew

- 6. Most of us have been **sick to our stomach or vomited** at some time. Vomiting is unpleasant. However, it can also be helpful. It can actually protect us from great harm.
  - a) Research to find out how vomiting can **protect us from harm**. Look in books from the library or on the Internet.
  - b) Next, create a list of **ten poisonous things** around the house that could make us very sick. You will need to do some research to complete this activity.

# Pin the Organ on the Body

Here is an outline of the human body. To the left are pictures of important **ORGANS** in the body. Your task is to **CUT OUT** each organ and to **PASTE** it on the body where it belongs. You may use information from the reading passages, the Internet, or other resource materials to find the answers. (Hint: some of the organs may overlap!)

- a) liver 
- b) intestines 
- c) esophagus 
- d) bladder 
- e) heart 
- f) lungs 
- g) stomach 
- h) kidneys 



# Word Search

Find all of the words in the Word Search. Words are written horizontally, vertically, or diagonally, and some are even written backwards.

- circulate
- artery
- vein
- urine
- capillary
- pressure
- excretory system
- oxygen
- bladder
- digestion
- fetus
- involuntary
- heart
- chamber
- nutrients
- abdomen
- plasma
- platelet
- clot
- immunity
- carbon dioxide
- saliva
- stomach
- esophagus
- kidneys
- intestine
- colon
- enzymes

A	W	S	T	Z	C	S	D	F	T	G	B	N	H	Y	U	M	K
M	K	L	Y	F	H	E	A	R	T	R	F	V	S	D	R	E	X
C	S	T	O	M	A	C	H	H	C	J	R	C	U	L	A	T	E
Z	A	Q	X	S	M	R	F	V	B	N	X	D	E	R	H	S	F
C	D	E	Y	F	B	T	G	E	N	T	U	J	M	K	N	Y	I
N	P	T	G	U	E	J	K	L	N	E	W	F	E	T	U	S	N
W	L	R	E	Y	R	K	Y	U	G	S	O	V	X	D	E	Y	V
Q	A	S	N	U	T	R	I	E	N	T	S	E	J	F	T	R	O
M	S	H	Y	T	G	B	F	D	E	I	T	I	U	R	P	O	L
V	M	D	F	H	U	H	V	T	N	N	C	N	S	E	G	T	U
X	A	E	D	C	V	F	T	Y	G	E	C	V	N	D	G	E	N
U	H	V	B	F	N	Z	Y	M	E	S	Y	R	F	D	V	R	T
R	P	L	A	T	E	L	E	T	H	A	G	S	X	A	H	C	A
Y	R	E	R	A	R	V	G	Y	L	R	F	I	L	A	X	R	
R	E	D	V	B	U	Y	U	O	L	I	F	D	M	B	B	E	Y
A	V	F	R	S	N	H	Y	R	F	V	D	G	M	S	D	K	J
L	W	C	S	V	F	R	T	G	H	A	U	J	U	R	O	F	K
L	S	E	S	O	P	H	A	G	U	S	N	Y	N	B	M	D	F
I	R	A	C	A	R	B	O	N	D	I	O	X	I	D	E	U	Y
P	U	H	N	T	V	R	F	T	G	B	L	N	T	H	N	O	L
A	Q	S	O	X	E	D	C	R	F	V	O	T	Y	G	B	N	H
C	M	L	J	U	U	R	I	N	E	K	C	I	L	O	P	S	F
X	C	V	D	E	R	F	D	G	N	O	I	T	S	E	G	I	D

# Comprehension Quiz

## Part A

34

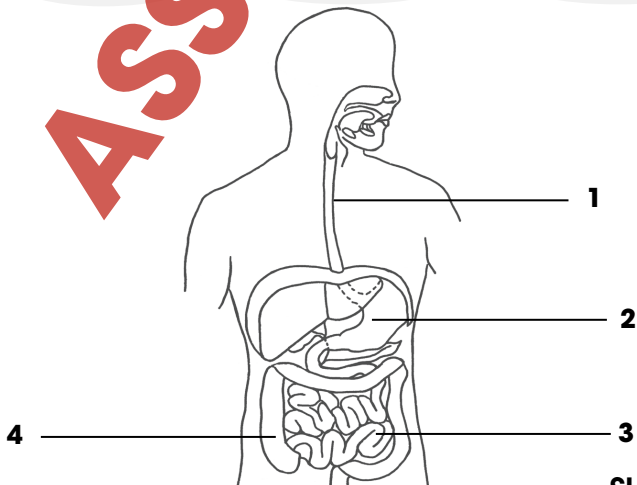
Circle **T** if the statement is **TRUE** or **F** if it is **FALSE**.

- T F 1) Blood circulates through blood vessels and goes to all parts of the body.
- T F 2) The largest artery is the aorta, located in the lungs.
- T F 3) The heart is a pump made of voluntary muscle tissue.
- T F 4) Our stomach is not very strong. This is why we can get sick to our stomach.
- T F 5) Acid in the stomach breaks down our food.
- T F 6) Materials left over in the large intestine are indigestible.
- T F 7) Sugar is a waste material found in sweat.
- T F 8) Testosterone is an enzyme made in the male body.

## Part B

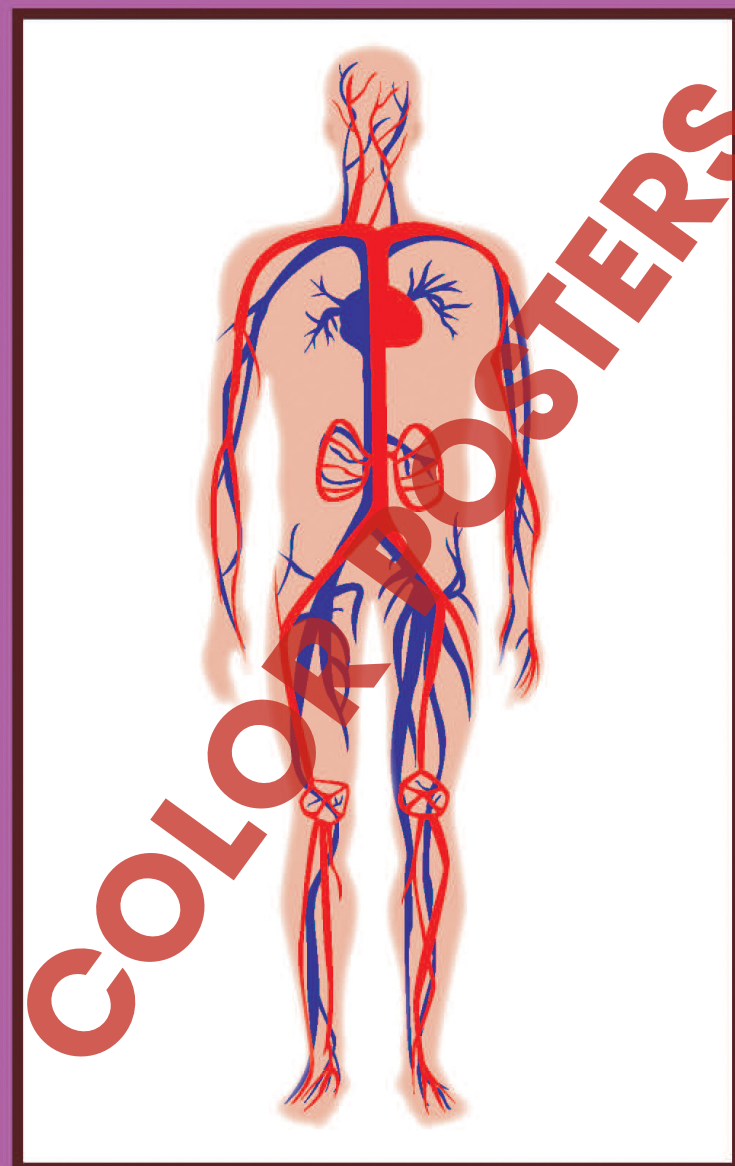
Label the parts of the digestive system. Use the words in the list.

- stomach
- esophagus
- large intestine
- small intestine



SUBTOTAL: /16

# Circulatory System



NAME: \_\_\_\_\_

After You Read 



# The Digestive System - Mouth to Stomach

3. What kind of muscles line the esophagus?

\_\_\_\_\_

4. How does the stomach digest food?

\_\_\_\_\_

## Extension & Application

5. Below is a list of words from the reading. Choose SIX words that link together well. Circle them. Then write a paragraph about a piece of pizza that is getting eaten by a hungry classmate. Write your story as if YOU are the piece of pizza! What happens? What would it be like if YOU were a piece of pizza getting eaten by a hungry classmate? Use the facts from the reading and your own ideas. Be creative!

saliva                      starch                      churn                      sugar  
 esophagus                acid                        squeeze                tongue  
 swallow                  intestine                 mouth                    chew

# EASY MARKING ANSWER KEY

6. Most of us have been **sick to our stomach or vomited** at some time. Vomiting is unpleasant. However, it can also be helpful. It can actually protect us from great harm.

- a) Research to find out how vomiting can **protect us from harm**. Look in books from the library or on the Internet.
- b) Next, create a list of **ten poisonous things** around the house that could make us very sick. You will need to do some research to complete this activity.

3.

involuntary

4.

Answers will vary

5.

Answers will vary

6.

Answers will vary

### Student results:

#### Pulse at rest

- lowest of the 4 measurements

#### Pulse after exercise

- highest of the 4 measurements

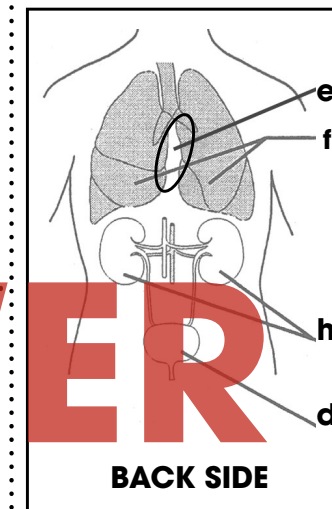
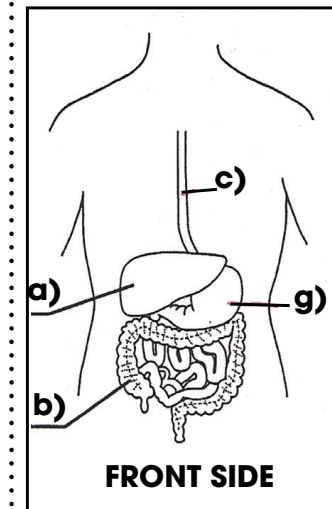
#### Pulse aft 2 min. rest

- lower than after exercise

#### Pulse aft 5 min. rest

- lower than after 2 min. rest

Pulse is highest after exercise because the heart is beating fastest at this time. It beats faster because the body is working and the cells need more oxygen than when at rest. (Blood carries oxygen to cells.)



11. It is cleaner than the water that was poured

2.

They removed the dirt

3.

Kidneys filter waste materials out of the blood

12.

Answers will vary

13.

14.

