

Name _____ Date _____ **Chapter 9 the Digestive System**

You now know how your body gets the _____ it needs. But how do your body's cells get the _____ they need?

The Parts of Your Digestive System

- Think of it as a _____ tube inside your body.
- Several different organs make up the tube, and each has its own job. Your _____ is at the top (takes in food), & the anus is at the end (release waste).
- Organs that connect to form this digestive "tube":
 1. mouth
 2. esophagus
 3. _____
 4. small intestine
 5. _____
 6. rectum
 7. anus

• Other important organs attached produce digestive juices. These organs are:

1. salivary glands
2. _____
3. _____

• The _____ stores the digestive juices the liver produces.

• Your body has _____ cells that help with digestion. _____ cells in your stomach produce an enzyme to break down proteins. This enzyme only works when an _____ is present.

• _____ cells are found next to chief cells. They produce an acid that "turns on" the enzymes from the chief cells.

Two Ways Food is Broken Down:

1. Chemical Digestion: enzymes change food into forms that are simple enough to pass into your _____.
 - a. Enzymes are in saliva, in fluids in stomach, and _____ intestine.
2. Physical Digestion: muscles in the digestive system break down food into smaller pieces. This also mixes in the _____.
 - a. The muscles make a motion similar to kneading _____.

These two processes work _____.

What happens if your body can't use the food?

- Your _____ intestine helps you get rid of parts of food your body can't use.
- As undigested food moves through large intestine, water and _____ are pulled from it and passed into the _____.
- Enough water removed so a firm stool remains.
- Stool is stored in the _____ until ready to be passed through the anus.
- Most of food passed through the large intestine is _____.
 - Fiber comes from fruits, _____, and grains.
 - You need fiber to have regular _____ movements (so you can go the bathroom).

Digestion and Exercise (Answer the following questions in bullet form.)

- Why do you feel hungry and thirsty after you've been active?

- What does it mean to be lactose intolerant?

- What is celiac disease?
