

Physical and Chemical Digestion

Directions: For each description in the chart below, identify the organ that performs that function and determine if it is describing physical or chemical digestion

- | | | | |
|------------|--------------------|----------------|----------------|
| A. liver | B. small intestine | C. gallbladder | D. esophagus |
| E. mouth | F. pancreas | G. tongue | H. peristalsis |
| I. stomach | J. large intestine | K. villi | L. teeth |

Organ	Physical Or Chemical	
1.	2.	Stores a substance called bile, which breaks down fat into tiny droplets of fat
3.	4.	Digestion begins when salivary gland secretions enter this
5.	6.	Tiny projection extending from the walls of the small intestine and involved in absorbing products of digestion
7.	8.	Used to cut, tear, and grind food; adult has 32
9.	10.	When you swallow food, muscular movements carry the food along this structure to the stomach
11.	12.	This organ absorbs excess water form undigested food prior to its release from the body as a solid waste
13.	14.	Muscular movement involving the walls of the digestive tract that serve to mix materials and move them along the tract
15.	16.	It pushes food to the back of the mouth prior to swallowing
17.	18.	This organ produces bile and detoxifies a variety of substances
19.	20.	Pancreatic juices breaking down carbohydrates, lipids, and proteins into simpler substances
21.	22.	Functions include mixing/churning food and serving as a holding tank prior to the food being passed on to the small intestine
23.	24.	Creates juices that breaks down food in the small intestine

25. List the order food passes through your body.

_____ → _____ → _____ → _____ → _____ → _____

26. List three accessory digestive organs. _____

27. What does the small intestines have to increase surface area for absorption? _____

28. In what part(s) of the digestive system (mouth, stomach, small intestine, large intestine) does **chemical** digestion occur for each?

a. proteins _____ c. carbohydrates _____

b. lipids _____

Physical and Chemical Digestion

1. Number and label the parts of the digestive system that food passes through in order (Small intestine, Esophagus, Stomach, Mouth, Large Intestine).
2. Add labels to the following accessory organs: liver, gall bladder, pancreas, salivary gland
3. Identify if physical and/or chemical digestion take place in each numbered part. Give a specific example of the kind of physical/chemical digestion that does take place. Put N/A if a type of digestion does not occur in that part.

Order: ____
 Organ: _____
 Physical:

 Chemical:

Organ: _____

Order: ____
 Organ: _____
 Physical:

 Chemical:

Organ: _____

Organ: _____

Organ: _____

Order: ____
 Organ: _____
 Physical:

 Chemical:

Order: ____
 Organ: _____
 Physical:

 Chemical:

Order: ____
 Organ: _____
 Physical:

 Chemical:

