

Name: _____

Date: _____

Period: _____

Cheeseburger Digestion

Week # _____

Directions: Identify the type of macromolecule that makes up each part of a cheeseburger.

Bun: _____

Lettuce: _____

Patty: _____

Tomato: _____

Cheese: _____



Directions: Use your "Digestive System Intro" worksheet and Table 1 to fill in the blanks in each question below.

Site	Enzyme	Effect on Food
Mouth	Amylase	Breaks down starches (carbohydrates) into simple sugars
Stomach	Pepsin	Breaks down protein into amino acids
Small Intestine	Amylase	Breaks down starches (carbohydrates) into simple sugars
	Trypsin	Breaks down protein into amino acids
	Lipase	Breaks down fat into fatty acids

Table 1

- You use your _____ to take a bite out of the cheeseburger.
 - The cheeseburger is first broken down by _____ digestion because _____.
 - Then some parts of the cheeseburger are broken down by _____ digestion.
 - The enzyme _____ located in _____ breaks down the _____ in the _____ into _____.
- Next, the food travels down the _____.
- Then the food enters the _____.
 - Here, muscles physically mix and churn the food, breaking it into smaller pieces. This is _____ digestion.
 - Then more parts of the cheeseburger are broken down by chemical digestion.
 - The enzyme _____ breaks down the _____ in the _____ of the cheeseburger into _____.
- Next, food travels to the _____.
 - Many digestive enzymes are located here, so food is broken down by _____ digestion.
 - The enzyme _____ breaks down the _____ in the _____ into _____.
 - The enzyme _____ breaks down the _____ in the _____ of the cheeseburger into _____.
 - The enzyme _____ breaks down the _____ in the _____ of the cheeseburger into _____.

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- b. After all the food has been broken down, the nutrients are _____ and leave the digestive system and go into the _____ where they are brought to all the cells of the body.
- 5. The remaining food travels to the _____.
 - a. Here, _____ is absorbed from the remaining food.
- 6. Remaining undigested food then travels to the rectum and then anus where it is excreted.

Check for Understanding

- 1. List in order the parts of the digestive system. _____ → _____ → _____ → _____ → _____ → _____
- 2. Where does mechanical digestion occur? _____

- 3. Where does chemical digestion occur? _____

- 4. What do you think would happen if our bodies only chemically digested food and did not mechanically digest food? _____

- 5. The small intestine is over six-feet long in an average human. Why is it beneficial for the small intestine to be so long? _____

- 6. Individuals who have had their stomachs removed can survive if fed pre-digested food. Could these individuals also survive without a small intestine? Explain. _____

