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Nutrients and Digestive System Quiz

1. Match each of the macromolecules with its function in the body.

- ____ Lipids
- ____ Carbohydrates
- ____ Proteins
- ____ Nucleic acids

- a. These molecules are the main energy source for the cells of the body.
- b. These molecules are present in skin, hair, nails, muscles and bones and help to make them strong, also found in blood, hormones, and enzymes.
- c. These molecules help your body absorb necessary nutrients, maintain the structure and function of cell membranes, and help keep your immune system working.
- d. These molecules provide the raw materials for you body to build DNA and RNA.

2. Give an example of a food that is rich in proteins. _____

3. Give an example of a food that is rich in carbohydrates. _____

4. Explain the 3 functions of the digestive system.

- a. _____
- b. _____
- c. _____

5. Where is the first place that mechanical digestion takes place? _____

6. What organ is the site of the majority of the mechanical digestion of food? _____

7. Where is the first place that chemical digestion takes place? _____

8. What organ is the site of the majority of the chemical digestion of food? _____

9. What organ the main site of absorption of nutrients? _____

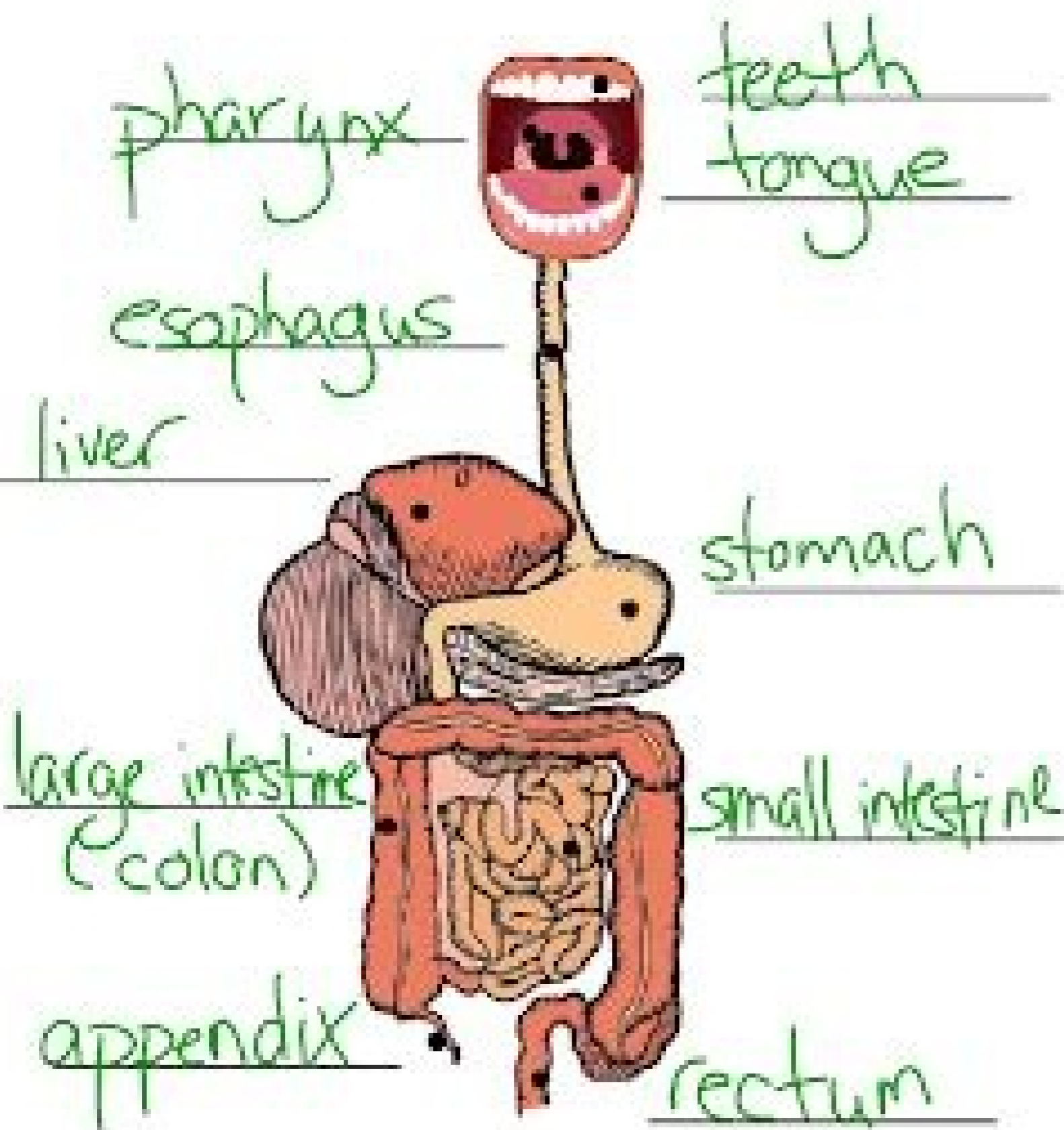
10. What organ is the main site of absorption of water? _____

11. What is the name of the muscular contractions that occur in the esophagus, small intestine, and large intestine that push food through these tubes? _____



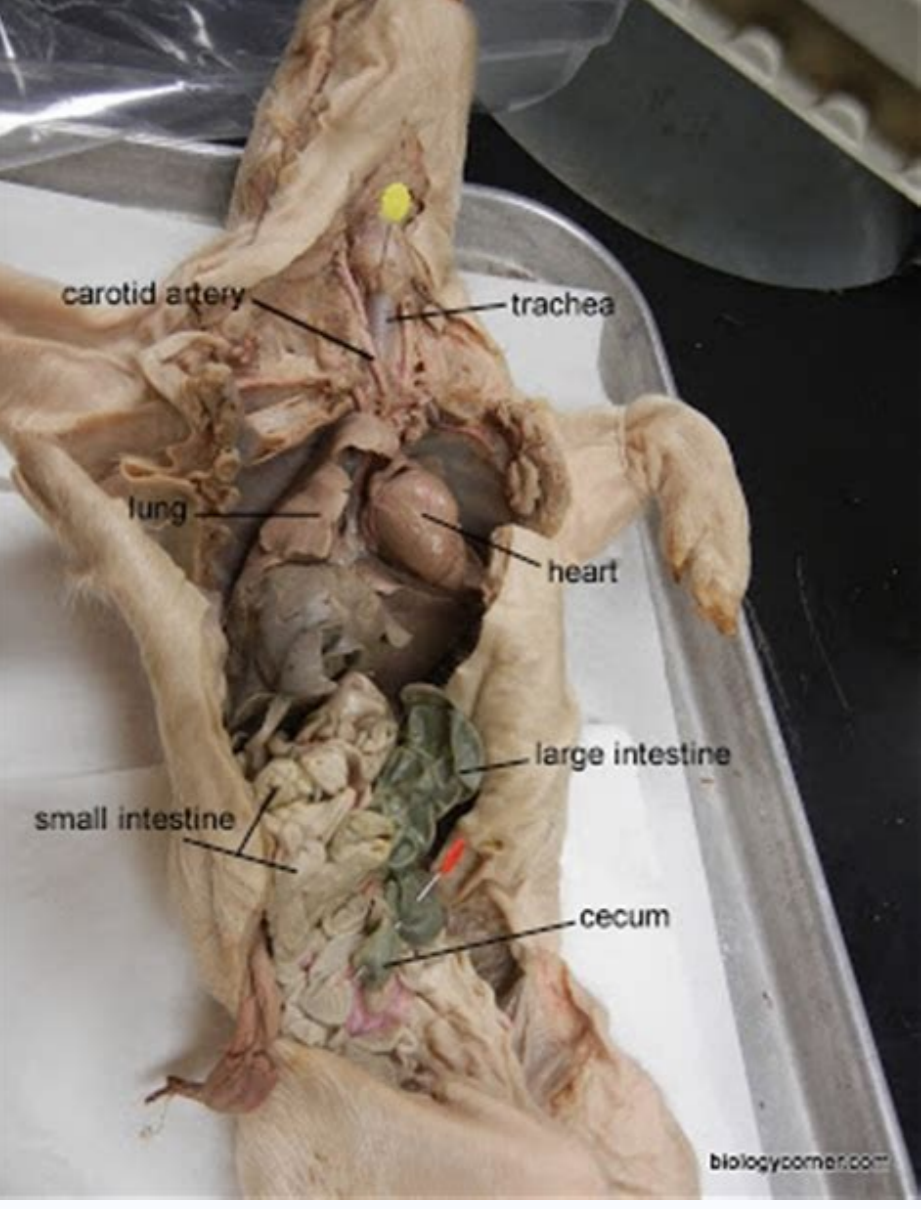
The Human Digestive System

Label the parts of the human digestive system.



~~appendix, esophagus, large intestine, liver, pharynx,~~
~~rectum, small intestine, stomach, teeth, tongue~~

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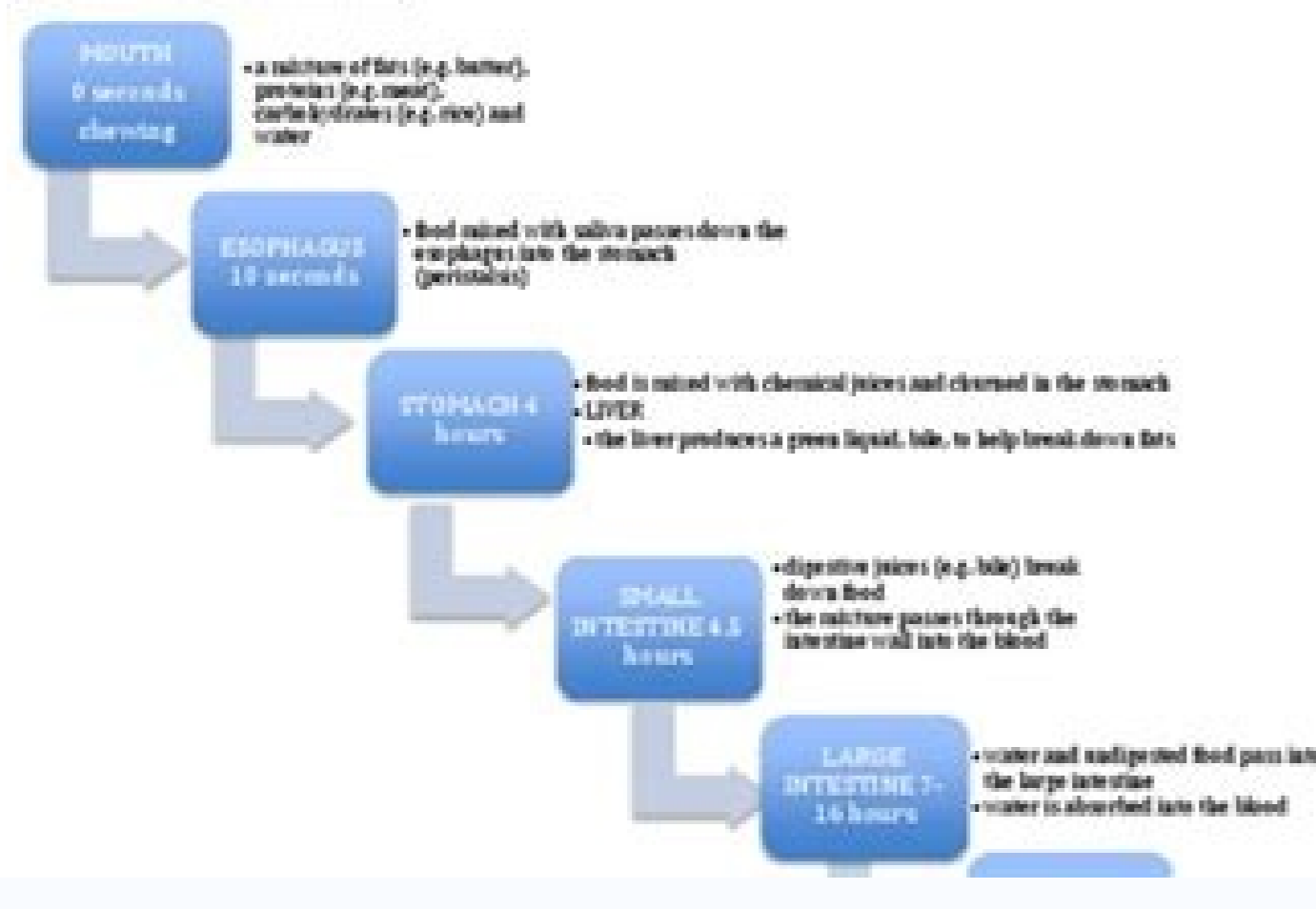


EATING AND DIGESTION

- A. Why do we eat?**
Food contains sources of energy that the body needs to stay alive and to repair itself. Food is the fuel that provides energy, just like gas is the fuel that provides a car with energy.
- B. What happens when I swallow my food?**
When a mouthful of chewed food is soft and pliable, your tongue squeezes off a portion and pushes it to the back of your mouth and down into your throat to the top of the esophagus. When you swallow, muscular waves, peristalsis, push the food along the digestive tract from the mouth, down the esophagus to the stomach. From the stomach, it moves on to the small and large intestines.
- C. What is a balanced diet?**
Ask your Wellness teacher and let me know.
- D. So, what happens in my mouth while I'm chewing my food?**
Food in the mouth is mixed with a water-like substance called saliva or spit. Did you know that your salivary glands produce about 1.5 liters of saliva every day? As soon as you smell or look at food, saliva flows along tubes called salivary ducts into your mouth. This lubricates your food for easier chewing and swallowing. Your tongue pushes food around for thorough mastication.
- E. What happens to the food in my stomach and small intestine?**
Your stomach is a muscular machine that churns the food in an acid-and-enzyme bath. Now the semifluid substance in your stomach is called chyme [pronounced kīme]. Chyme passes from your stomach into your small intestine, where chemical digestion continues and most nutrients are absorbed. Food molecules pass through finger-shaped villi into the blood. Villi provide a large surface area for absorption of nutrients.
- F. What else can you tell me about digestion?**
Well, through the process of digestion starches and carbohydrates are turned into glucose. Glucose is "burned" to release energy. Some of this is released as heat energy and some of it is changed by muscle cells into energy of movement. Did you know that bacteria live in your intestine? Don't worry, these are healthy bacteria which make vitamin K.
- G. What are the chemicals called that break down food?**
Enzymes.

THE PASSAGE OF DIGESTION

How long does it take food to pass through my body?



Gizmo digestive system assessment questions answers. Digestive system gizmo quiz answer key. Gizmo answer key digestive system. Human digestive system gizmo answers.

86.36 Cal B. How many calories in cheeseburger vain carbohydrate, protein and fat? The main centers these cities produce pepsin, which breaks protein. Transports absorbed the fatty fatty to the bloodstream H C @ Lula Parietal J. Sample Answer: Mochemical digestiness by the mouth, maugo and bile breaks large foods of food in smaller pieces. The calories of the tofu come mainly of protein and fat. Introduction: digesting nutrients in simple, amioind and fatty carbohydrates is important, but it does not matter, unless nutrients enter the bloodstream to feed body squares. AAM CAIRS 6. Opening through which waste is eliminated F Pepsin H. Note: Now note the results of the proteans. Test each of the scenery below. Configure the Gizmo: Create the digestive system shown. 69.87 CAL 7. Fatty Formats D. Download PDF (Mirror Link) For Download Download Word Download PowerPoint Question: How does nutrients are absorbed? A rgon that absorbs the water and vitamin k d bile K. In the food tab, drag the mahand for the work area to see its nutritional facts. (The agitated action of the maid breaks foods of food and complex carbohydrates into the action of enzymes.) Foods in a thick wool called chimo. Explain your reasoning. List the results below. (If you want, click the screen shooting to take a instant and paste the image into a blank document to deliver this spreadsheet.) The outlines vary. Which one will allow nutrients to be absorbed? Drag the steam cooked tofu above the mouth. B. Activity B: Mechanic and Quimom Digestance Prepare the Gizmo: a A · Click Redefin and Clear Screen. 90 Cal B. Look at the remaining little ones. The mouth and the maid explain most of the digestion Enzyme that begins to digest proteins in the maid B. Sofaja G. Question: How the nutrients are broken in their own system? This is done with the help of bile, which is stored in the biliary vesicle. 27 lime 4. How do you think our bodies divide foods into nutrients aTiles? Experiment: Click Redefin. Click Redefin. 30.26 Cal B. What percentage of calories was absorbed by your system? What are the storage and compact waste before being eliminated? Download PDF by viewer 30 seconds Download Finish. 7. Main squids add these centers to the maid. Villosity absorbs nutrients in the small intestine. SEARCH: Click Redefin. Infected: The right diagram shows part of a villan. What nutrient comprises most Apple's calories? When the food is finished going through the system, you will see a message. Then the nutrients move to the bloodstream, a process called absorption. Activity C: Absorption Prepare the Gizmo: a A · Click Redefin and Clear Screen. Click Reproduce. 5. We will first see the digestion of fat. Hyding is produced in the maid and cencreas I. This increases the surface area for enzymes to break chemically carbohydrates, fats and proteans in axions, fatty and amioinct. Sample Answer: The teeth chew foods in small pieces, which are swallowed and transported to the maid. For each configuration, record the nutrients that are absorbed by the system. 31.32 Cal Explain how you know: Carbohydrates complexes decreased 31.32 lime and the axions increased in the same amount. Analysis: Examine the results of your four experiments. Test: Click Play. The results vary. Drag the walnut of walnut -pelling to the mouth. What percentage of calories has your system absorbed? Introduction: Now that you have explored a model of human digestion, it is time to apply what you have learned to the real human digestive system. (Be sure to look at the "absorbed" line of the dwarf table.) Sugars amino acids water capillary fatty water linked to the small intestine segments only 272.16 lime 21.43 lime 0 lime 18.9 g hair capillaries For the intestine, only 7.2 lime 0 lime 3.83 g of lymphostic vessels attached only to the small intestine segments (without capillaries) 0 lime 17.8 lime 0g of lymphostic vessels connected only to Large Intestine (without capillaries) 0 cal 0 lime 0g (activity C continued in the next pons) Activity C (continuing the anterior page) 3. It is not expected that students know the answers For previous questions of knowledge. 1. A villi is a mismanagement and fingertip -like projection on the small intestine wall. No. 4. Run the Gizmo: Click Play () and note the foods that move through the digestive system. Capillaries: The capillaries should be placed in the small and thick intestine. To start, observe the ones on the Great Guide. Explain: How do the mechanical and quamic digestion work together to break food? (Activity B continued at the next pãno) activity B (continuing previous pamigation) 3. mouth, a maid activity A: Prepare the Gizmo: Create a digestive system. Rio, click Clear Screen. This process is called absorption. Prepare: Select the food tab. Describe your system below. Configure the Gizmo: Make sure the current digestive system has mouth, salivary, foolish, pancreas and straight, as shown above. Sample Answer: The texture of the stool depends on how much water was removed from the food. Note: Look at the descriptions of the large and small ones. Combine: correspond to each structure, quamic product or process with its function. 8. 2. Challenge: Using a total of only five of the rise, project a digestive system that can absorb the number of Apple's mother's calories. This is a site in the benefit to share the information. Percentage of absorbed calories: the results vary. Has the system improved? The lymphostic vase and the capillaries (the students do not need to know this, but (a) represents the lymphostic vessel and (b) represents B. Put the biliary vesicle in the left faster of the pancreas. Ninth Powerful quamics break food in a process called the quomic digestion. Lymphic Vessels: Lymphatic vessels should be placed only in the small intestine. Objective: Design your own digestive system. The axions and the bactus of the water in the large intestine break some types of fibers - a difficult to digest complex carbohydrates - in axion and other nutrients. If most of the water is removed and the waste is compressed in the rectum, the bank is loud. Note: Click Redefin. A. Each calorie is equal to 4,184 energy joules. Muscle contractions that push food through the digestive system Joga Greito F. What do you think is the function of an villain? The energy we get from food is measured in food calories (calories). Teeth and muscle contractions in the maid divide the food into smaller particles, a process called mechanical digestion. After the digestion is complete, what is the value of complex carbohydrates? C. Digestive System Answer Key Vocabulary: Absorption, Amino Acid, Carbohydrate, Chemical Digestion, Chyme, Complex Carbohydrate, Digestive System, Elimination, Fat, Fatty Accident, Fiber, Food Calorie, Mechanical Digenon, Monoglycer, Nutritional, Peristalsis, Peristalsis, Protein, starch, ancar, Vilus Priors Knowledge Questions (make this before using the Gizmo.) [Note: The purpose of these questions is to activate the knowledge of the students and make students think. Explore: Read the descriptions of the great ones, as well as those of the little ones on the next tab. Straight 3. On the food tab, drag the baked potato to the mouth. Explain. Rearrangize your system's themselves to try to improve your results. PREVERE: What good do you think your system will digest food? Review: Click Redefin (). Muscle tube that connects the throat and the mago a duodenum C. 1. Activity a (continuing the anterior page) 4. (Activity D continued in start. Quemic products in the maid and intestine further divide food into simple nutrients, which are absorbed by the blood. Objective: Describe the human digestive system. Explore: Use the Gizmo to determine how the absorption of the water affects the texture of the stool (coconut) produced by the digestive system. Why do you think the results were different? With the digestive system Gizmo A c, you can organize the district system of the digestive system the way you want. How many fat calories were converted into fatty ones in this situation? What is the initial value of complex carbohydrates? Then attach the themselves from the small guide to the great ones to complete your system. Pepsin works best in a tied environment. Which produces Pepsin? PARIETAL SLULES These cities produce hydrochric (HCl). How many fat calories were converted into fatty? What are the names of the ships labeled as A and B in the diagram? Superior Small Intestine and Peristalsis B. Sample Response: Foods provide an energy source and matters -Prime to growth and development. Molting fat can be tight to break, because large fat droplets do not mix well with water -based enzymes such as lipase. Why do you think this is the long time? Build: Now it's time to design and build your own digestive system! Start with the great guide to build a basic system, starting with the mouth/pharynx. The process of digesting protein is helped by the enzyme pepsin. The answers vary. A potato consists mainly of complex carbohydrates, such as starch. 205.74 Cal C. (Activity the continuing in the next p.). The digestion of fat has improved. The small intestine and large intestine allow nutrients to pass through their walls. Explain: If your system has improved, why do you think it was like this? The intestine contain mills of villi. Most of the nutrient absorption occurs in the small intestine. Capillaries and lymphostic ships carry absorbed absorbed For the lipase to work, it helps if the fat is emulsified in small droplets. Carbohydrate calories: 226 protein calories lime: 140 calories of lime fat: 361 lime 5. What nutrients were absorbed by capillaries in the small intestine? Fill in the names of the ones that meet the functions listed below: Large intestine this is absorbs the water and vitamin K of digested foods. The parietal squids add them to the maid. Percentage of absorbed water: the results vary. Move the rectum, the fag and the right to the right and to insert the stain for the system to look like the right image. Which two are helping to break food mechanically? Why do we need to eat food? Which of the remaining small small ones produce a one? Small intestine and large intestine 2. The large length of the small intestine maximizes nutrient absorption. Enzyme that divides starches into simple carbohydrates 4. Have the lymphostic vessels absorbed something from the large intestine? It is important that foods are broken into small pieces so that nutrients can be exposed to the digestive enzymes. K amilase A. If very little water is absorbed, the stool will be loose or wool. Which of the great ones allow nutrients and water to pass through their walls? The small intestine has three parts: the duodenum (arrested at the maid), the jejunum (part of the mother) and the ãlio (attached to the large intestine). To keep this site, we need your assistance. A small gift will help us a lot. (Still press redefinition.) The proteans are molted complex cules formed from long amioind chains. Sample Answer: I created a system with mouth, mago and small intestine (jejuno/ãleo) with an attached pills and capillaries. Muscle contractions that push food through the system called peristalsis. [For comparison purposes, the image below is the most close of the real human digestive system with this gizm.] 3. How many calories calories Was complex carbohydrates converted into axion? 1,44 cal 6. The calories are found in the main nutrients of foods: carbohydrates (ãã. A rgon that produces a variety of digestive enzymes comes lymphostic D. Pancreas produces Train Digestive Enzymes: amylase breaking carbohydrates in simple carbohydrates (ãã. Lipase breaks fat in fat and accident). Describe how you changed your system below. 204.68 Cal C. Select the Guide Many. What nutrients were absorbed by the capillaries in the large intestine? D. PA c nCreas This is producing enzymes that break the nutrients. What do you conclude? Evaluate: In humans, the small intestine can be more than 8 meters (26 pages) in length. Move the Pancreas a space to the right (still attached to the fagot). What percentage of water was absorbed? Capillaries These small blood vessels carry absorbed nutrients. How many of the 72 original protein calories were converted into amioincts? What is the initial number of fat calories? Construct a system with mouth, salivary, softe, pancreas and straight. Drag the cheeseburger above the mouth on your digestive system. The predictions vary. How much protein is converted into amioincts now? Cal B. Finally, the remaining resumption is removed from the body, a process called elimination. Draw a figure of your system below. 6. [The system described above absorbs 73.91% of Apple's calories. Chapter: Based on what you have learned, identify the human digestive system. Quimic that interrupts large fat -fat drivers G Anus E. Put your cursor on each rise to learn more about it. Which of the small ones transported absorbed nutrients to the Think and discuss: Why is it important that the mouth and the maid are close to the unhappy of the digestive system? What is the final value of complex carbohydrates? Introduction: Before nutrients are absorbed, they must be divided into their simplest components. Which nutrient was absorbed by small intestine lymphostic vessels? Answers, amioincts and water B. Based on these results, what good do you think this digestive system worked? GIZM HEATING The digestive system is a group of such things: first, the digestive system divides foods into nutrients, a process called digestion. Review conclusions: Based on your experiments, where should the capillaries and lymphostic vessels be placed to maximize the absorption of nutrients of food? Activity D: Human Digestance Prepare the Gizmo: a A · Click Redefin and Clear Screen. How has the addition of the gallbladder affected the digestion of fat? digestion?

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