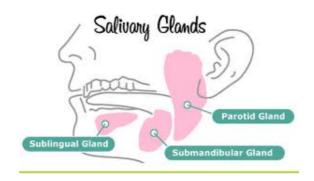
Oct 1, 2019

Answers pg 363 #1,2,3 The Digestive System 20-2

Warm- Up

liters of saliva is produced each day.



Think and Discuss p. 363

1. What is the function of enzymes?

Enzymes function to speed up the digestion process. Enzymes are part of the chemical digestion of food.

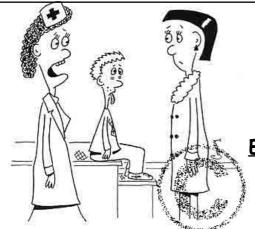
2. What is the difference between mechanical digestion and chemical digestion?

Mechanical digestion is the physical breakdown of food, where as chemical digestion uses chemicals like enzymes to break the food down.

3. Why must food undergo chemical digestion

before it can be used by the body?

Because the particles are too large to be digested if they are not broken down first into their individual components.



Ingestion - Taking in of food.

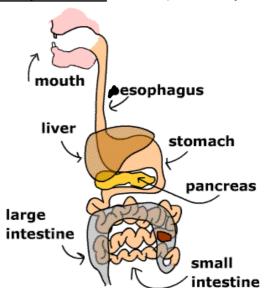
<u>Digestion</u> - Breakdown of food.

<u>Absorption</u> - Transport of digested nutrients to body tissues.

Egestion/Defecation- Removal of waste.

"Eating the poinsettia didn't make him sick. It was the three pounds of potting soil."

As you guessed, digestion begins in the mouth with the physical breakdown of food. Salivary glands aid by secreting enzymes.



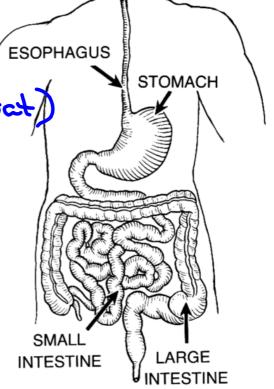
The Digestive System

• Digestion is a process in which many organs work together.

• The <u>alimentary canal</u> (aka digestive tract, gastrointestinal (GI) tract) is a long, tube-like structure made

up of the mouth, pharynx, esophagus, stomach, \\(\tau \) small intestine, and

large intestine.



Parts of the digestive system and their function

#1. The Mouth



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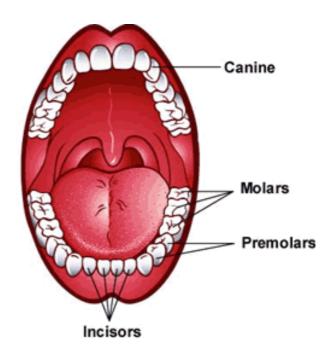
where food enters the digestive system

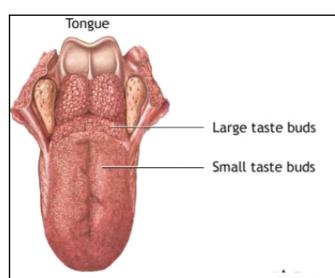
teeth begin by grinding, cutting, tearing and crushing the food

- <u>Teeth</u> cut, tear, grind and crush large pieces of food into smaller pieces.
- Humans have 4 different kinds of teeth:
 - 1) incisors cut and tear food
 - 2) <u>canines</u>

(3) <u>pre-molars</u> 4) molars

sprind and crush food





• the tongue moves food around in your mouth and allows it to be held by your teeth

- <u>Saliva</u>: softens and moistens food; begins the chemical digestion of food
- Saliva contains an enzyme that starts to break down starch into simpler forms. Salivary any lese
- Saliva is made by three pairs of <u>salivary glands</u>, and passes into the mouth through tiny tubes.



Sections of the tongue are responsible for taste sensations.

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Food particles must be in a solution before they can penetrate the taste buds of the tongue.

Tastes as we know can

Tastes as we know can be sweet, sour, or salty

| sphincters - a ring of muscle that guards or closes an opening or tube. |
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| There are 6 sphincters in the digestive system. |
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- When food is swallowed, it enters the pharynx.
- The <u>pharynx</u>, or throat, is a passageway for both food and air and lies between the mouth and esophagus.

Esophagus

a long, muscular tube connecting the mouth and the stomach

the walls are lined with cells that give off mucus (making it easier for the food to move)

