

Digestive System NOTES

Chapter _____

Digestion: the _____ of food into _____ substances for use by the _____. In the cells, nutrients are used for _____, and the raw materials for _____ and _____.

THE MOUTH

- _____ glands (3 pairs) produce _____. Saliva _____ food and contains the enzyme _____. _____ chemically breaks carbohydrates (starches) into _____.

- Enzyme:** _____.

- _____ and _____ digestion begins in the mouth.

The changing of a substance into another different substance.

The _____ action of breaking down food into _____ parts.
Incisors= _____
Canines= _____
Pre-molars/Molars= _____

- _____ buds are located on the _____.

Bitter Sweet Sour Salty

There is new research that reports the above pictures are not true. Taste buds may be randomly scattered.

- Flavor = _____ + _____ + _____
- When you swallow, _____ muscles near the back of your throat force food _____. This involuntary, wave-like muscular action is called _____.
- The _____ is a small flap of skin that automatically covers the _____ when swallowing.

THE ESOPHAGUS

- a _____ cm tube that connects the _____ to the _____.
- The first part of the tube directly after the mouth is called the _____.

- Bile: green liquid made by the _____ and stored in the _____
- 1. **BILE IS NOT AN ENZYME!** BILE **MECHANICALLY** BREAKS DOWN FATS INTO SMALLER PIECES OF FATS.
- 2. Bile is carried to the _____ by the _____ duct.
- Villi (singular villus):
 1. Tiny projections on the inner wall of the _____.
 2. _____ soluble food & puts into bloodstream.
 3. _____ surface area of the small intestine for **greater** absorption.
- At the **end** of digestion:

Carbohydrates	→	_____
Proteins	→	_____
Fats	→	<u>glycerol & fatty acids</u>

THE LARGE INTESTINE

- AKA _____
- _____ feet long, _____ inches across
- Holds _____ food (could **not** be broken down).
- ★ Reabsorbs _____ & minerals out of the insoluble food and puts this water back into the _____.
- Indigestible food becomes solid wastes or _____. Contains a lot of _____.
- **Rectum** = _____ feces. **Anus** = _____

APPENDIX

- Tiny, vestigial organ on the first part of the _____ intestine. _____.
- May become infected = _____.

Mechanical digestion	Chemical digestion
1. _____ (_____)	1. _____ (ptyalin)
2. _____ (churn)	2. _____ (_____)
3. Small intestine (_____)	3. _____ (pancreatic / intestinal juices)