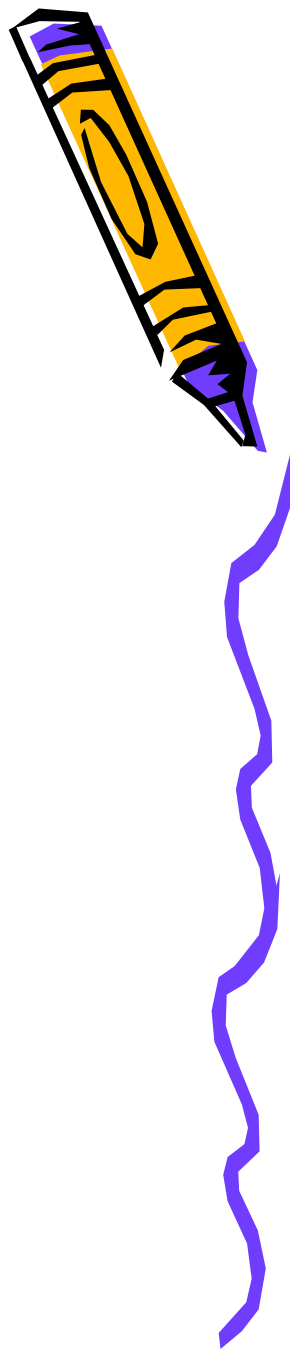


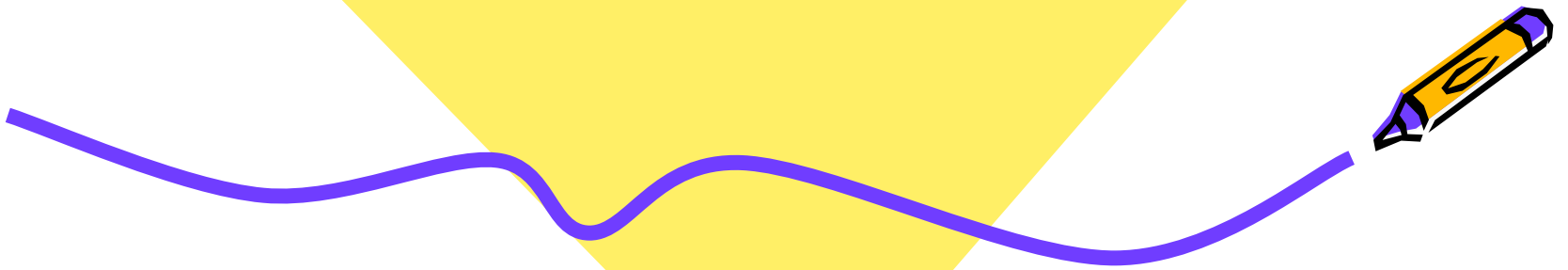
1/28/15

- How does the digestive system maintain homeostasis?





The Digestive System



Function of the digestive system

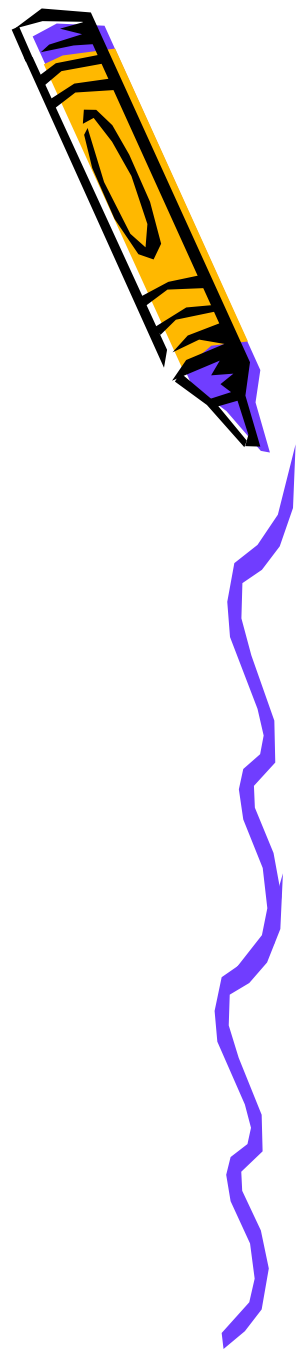
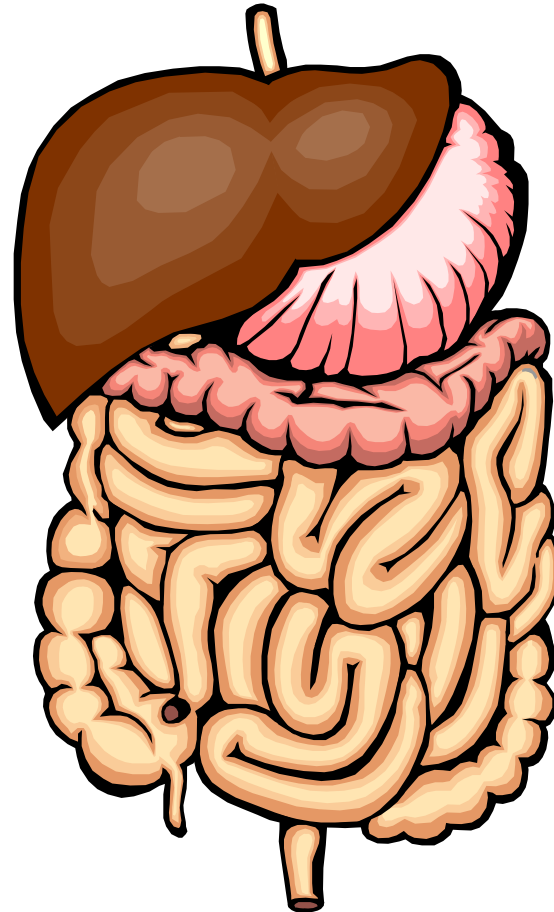


- Breaks down food
- Removes nutrients from food so our body can use



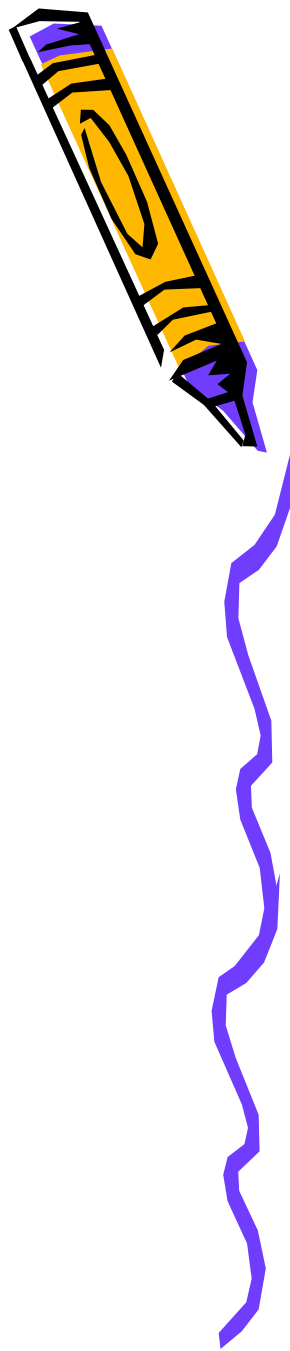
Components

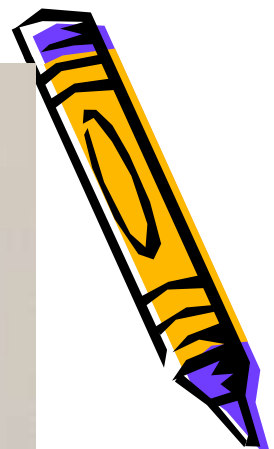
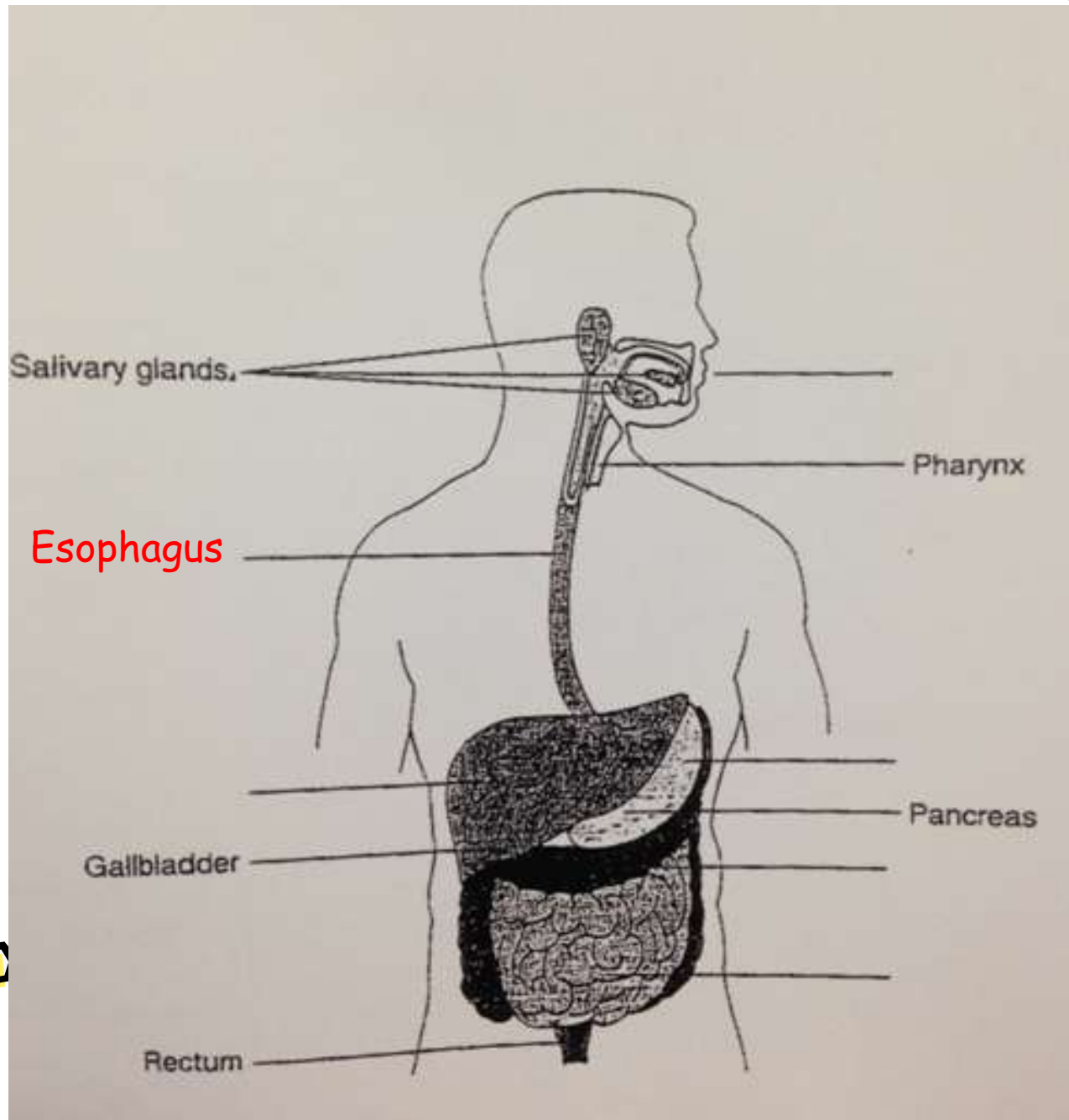
- Esophagus
- Stomach
- Small Intestine
- Large Intestine
- Gall bladder
- Liver
- Pancreas



Esophagus

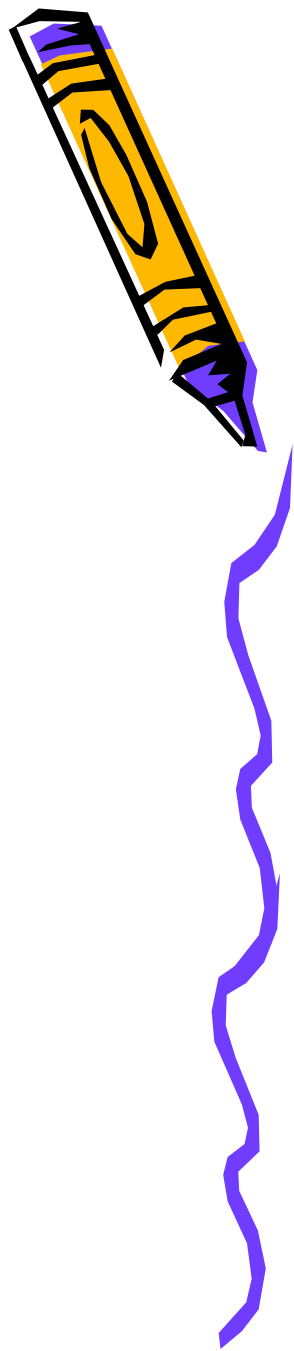
- the tube that connects your mouth and your stomach
- Moves food by squeezing muscles down- (like a toothpaste tube) called peristalsis



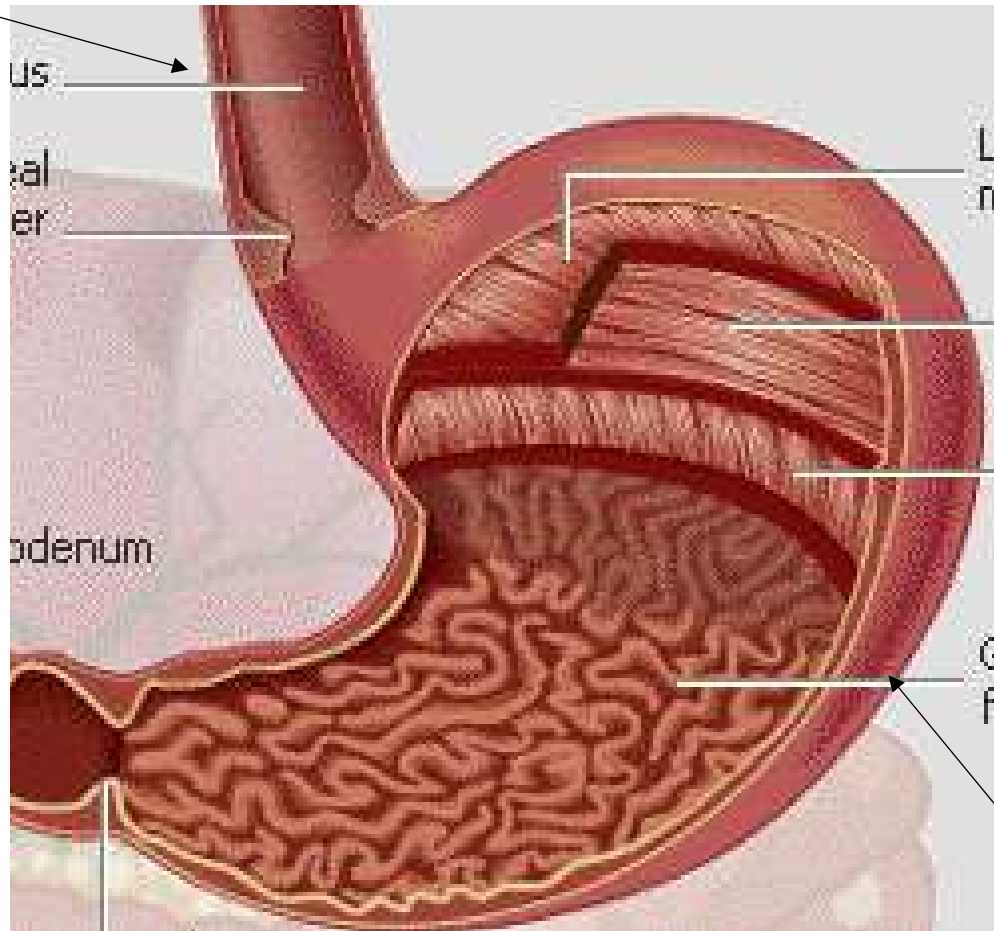


Stomach

- A stretchy bag that holds your food after you eat
- The acid (ph 2) and churning helps to break food into smaller pieces so your body can use it for energy and nutrition
- Just under the edge of the left side of your rib cage



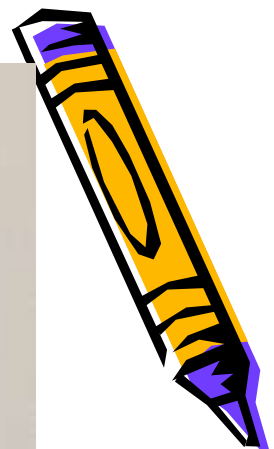
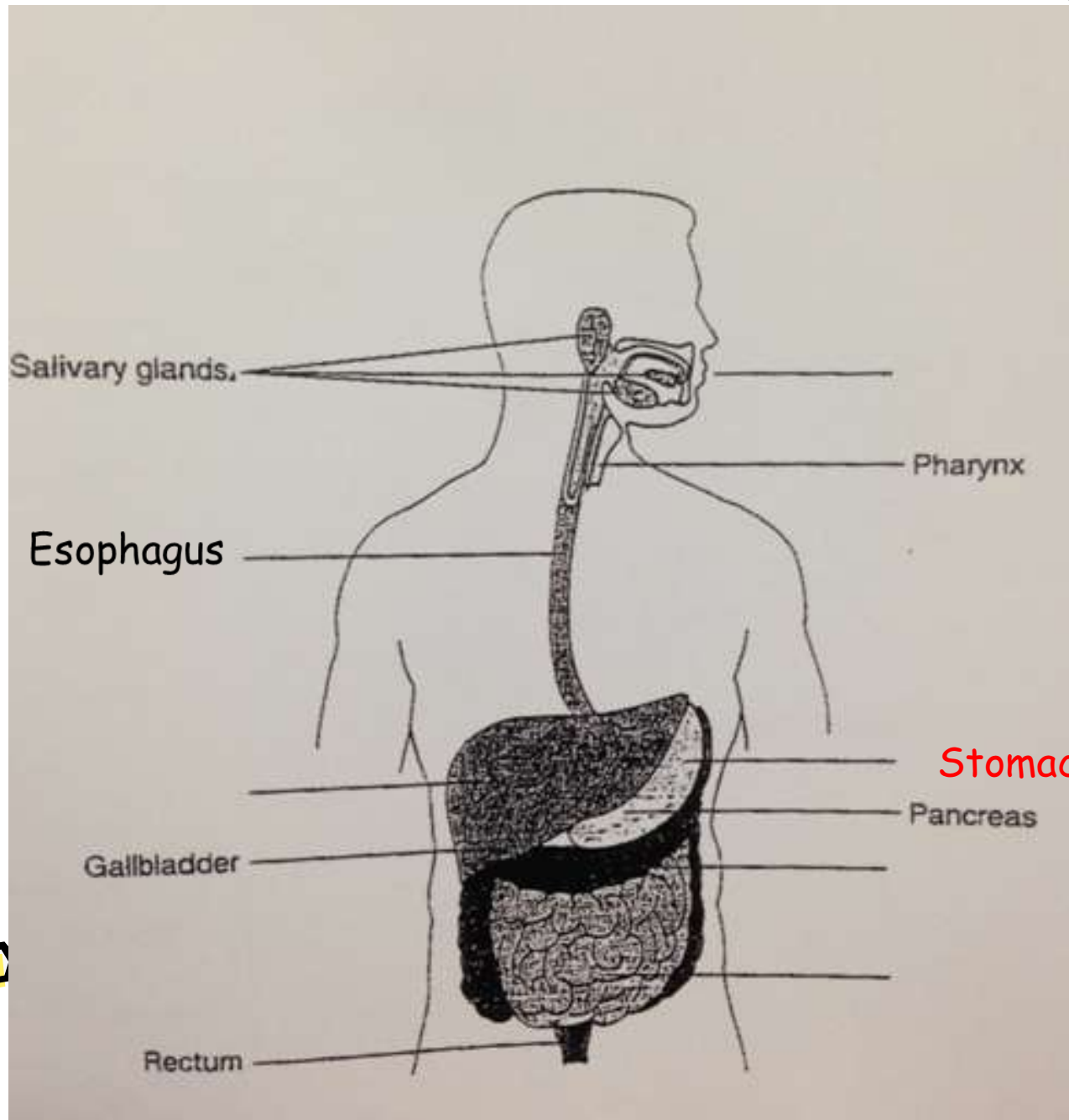
Esophagus



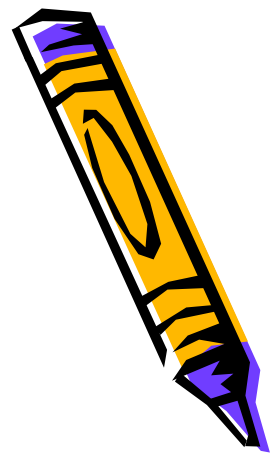
Notice the texture inside!!

Stomach

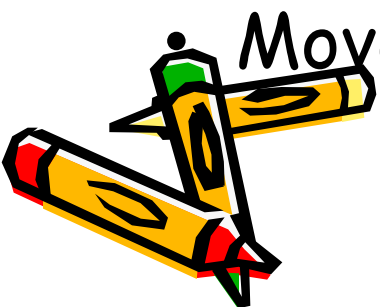


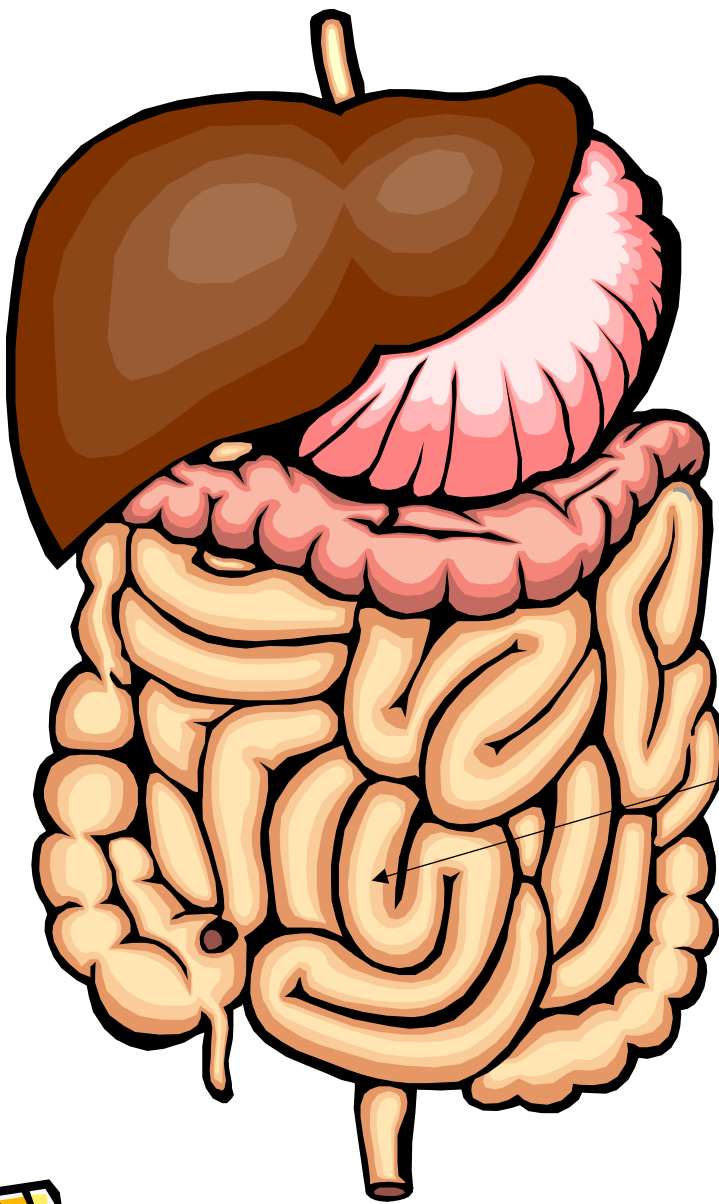


Small Intestine

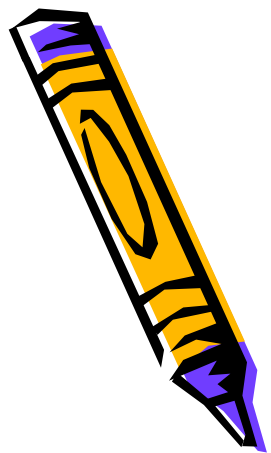


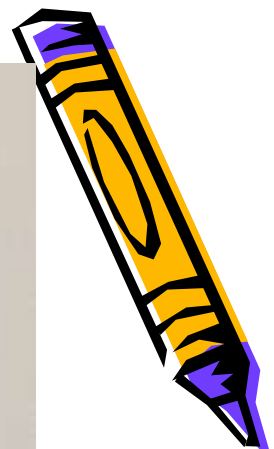
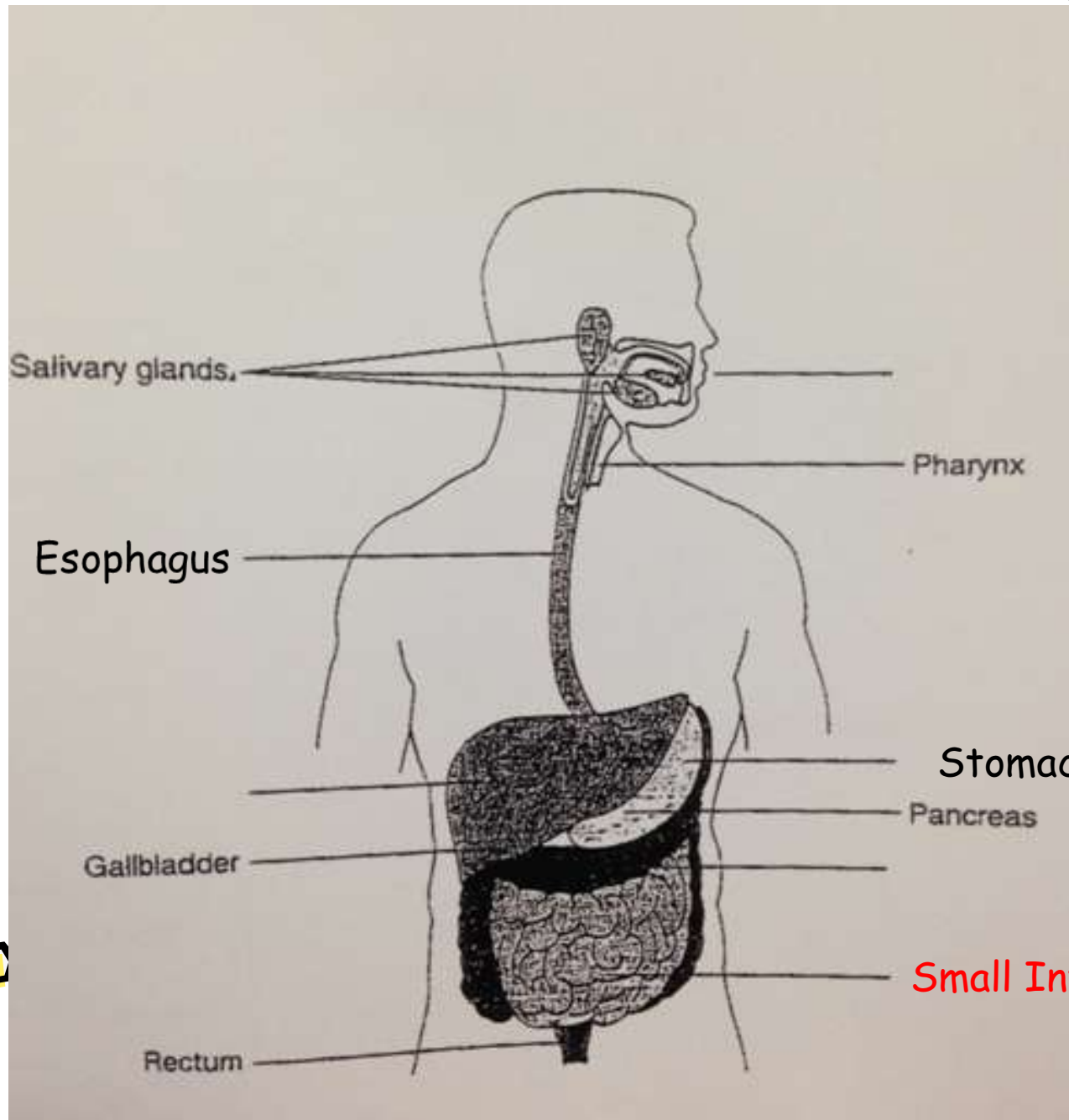
- Tube that is 20 feet long.
- Begins with duodenum
- Continues to digest food, removing nutrients from food
- Intestinal walls are very textured to create more surface area for absorption.
- Food stays in your small intestine for 4 to 8 hours
- Moves food through peristalsis!

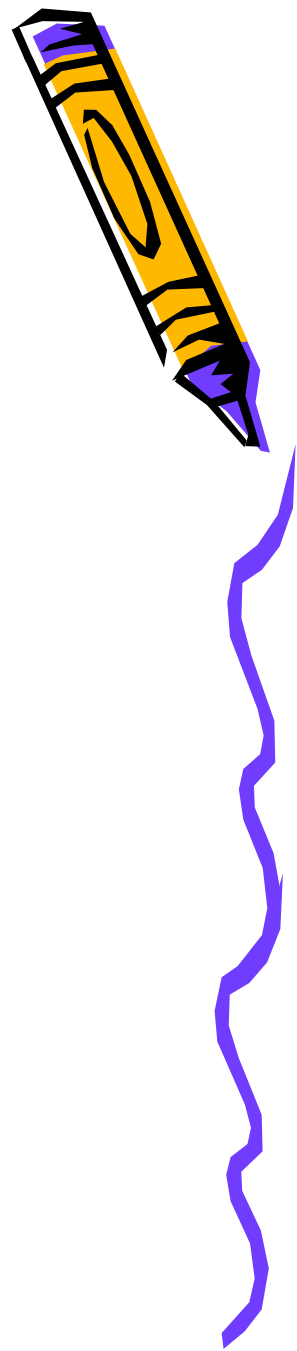




Small
Intestine







2 Types of digestion

1. Chemical:

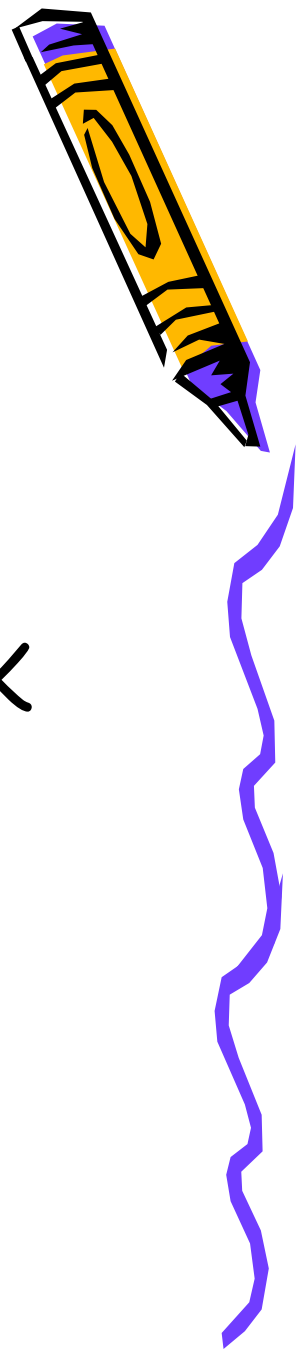
- A. Mouth (saliva),
- B. Stomach (HCl)
- C. Small intestine (bile)

2. Mechanical:

- A. Mouth (teeth grinding)
- B. stomach (muscles churning)



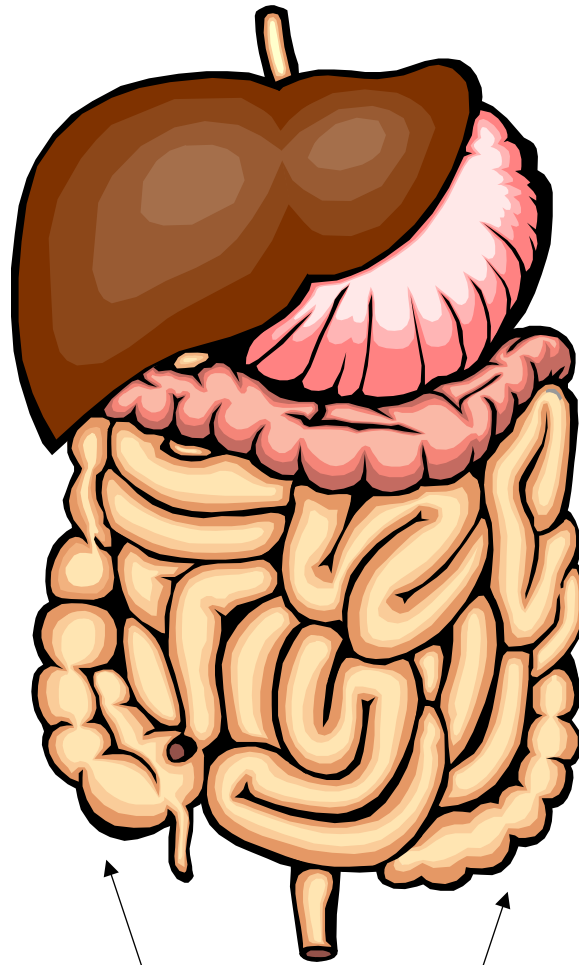
Large Intestine



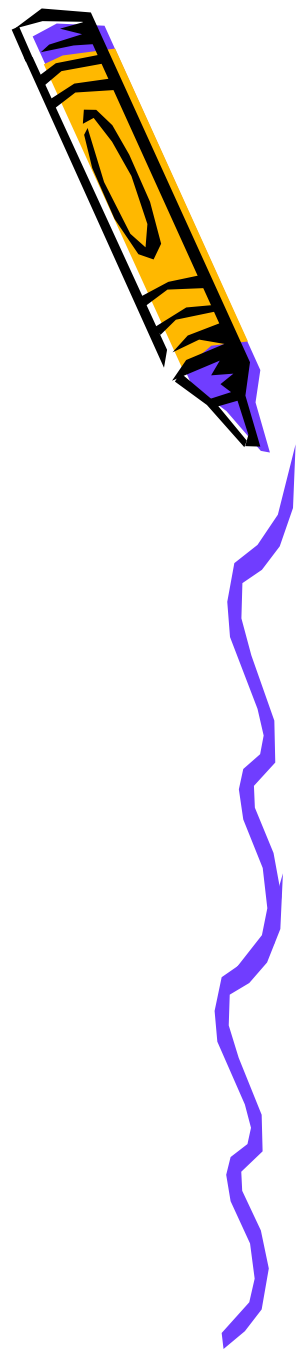
- Tube that is 5 feet long
- Gets waste from small intestine, removes water & makes vitamin K here.
- Bacteria help in the process of breakdown (see they are our friends!)

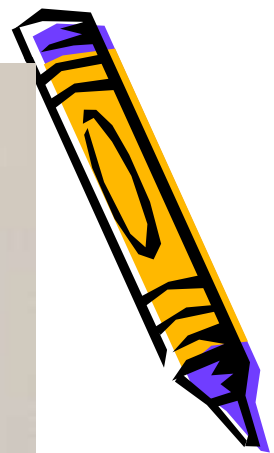
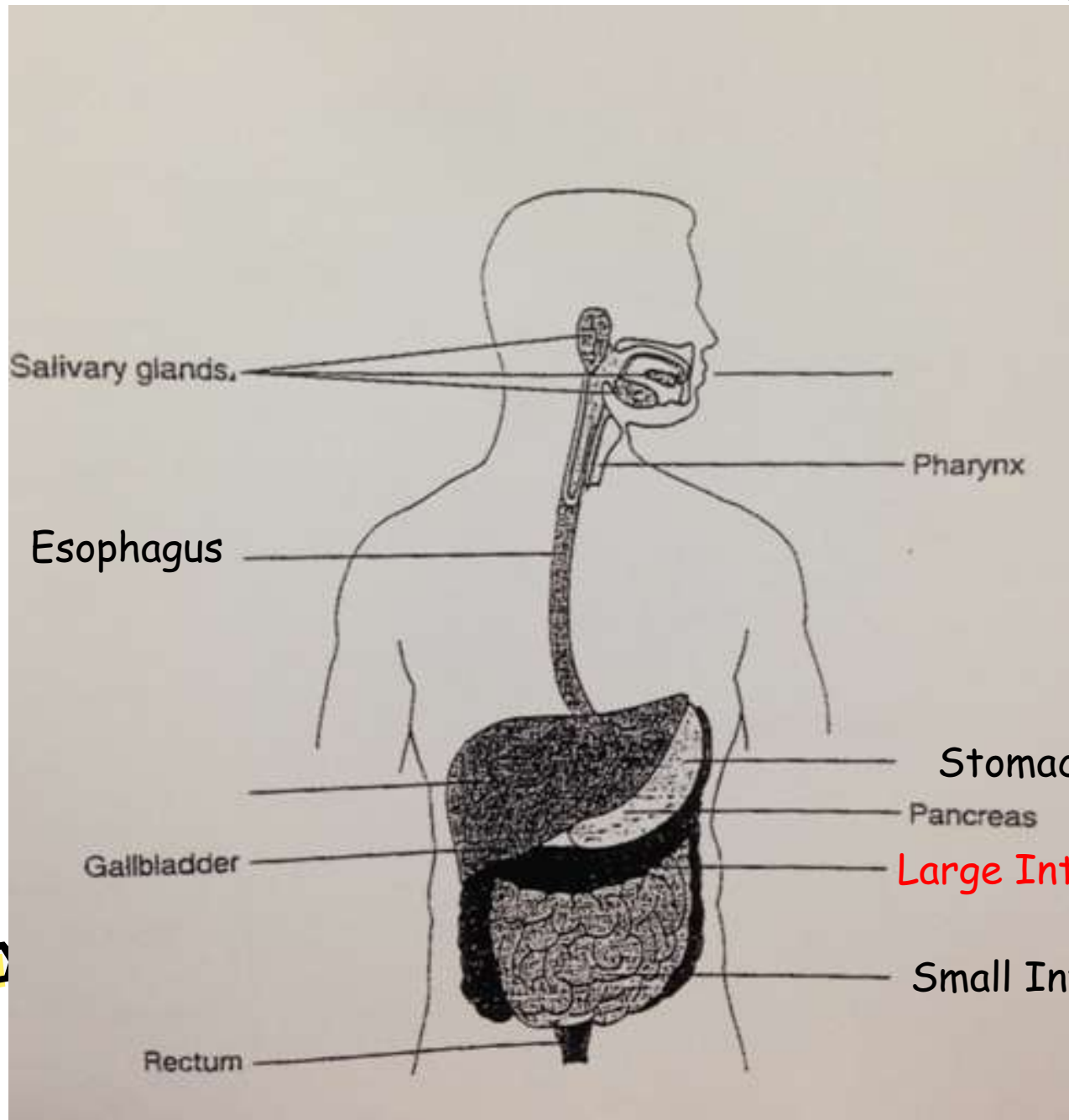
Waste stays for 10 to 12 hours





Large Intestine



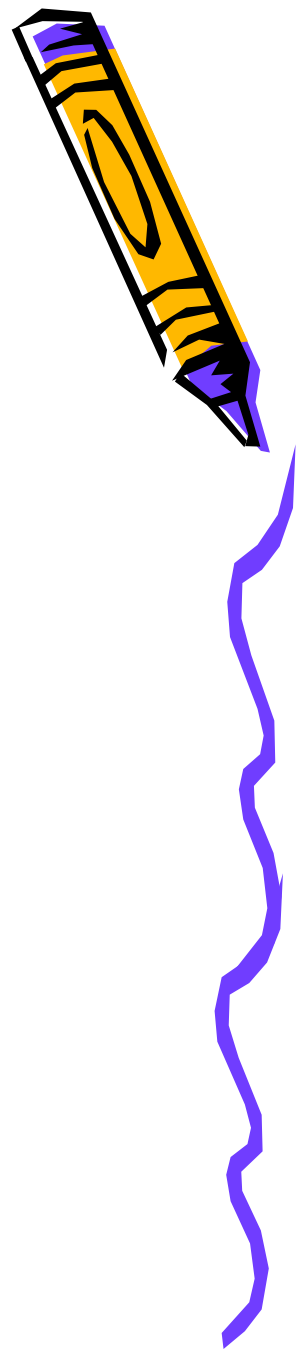
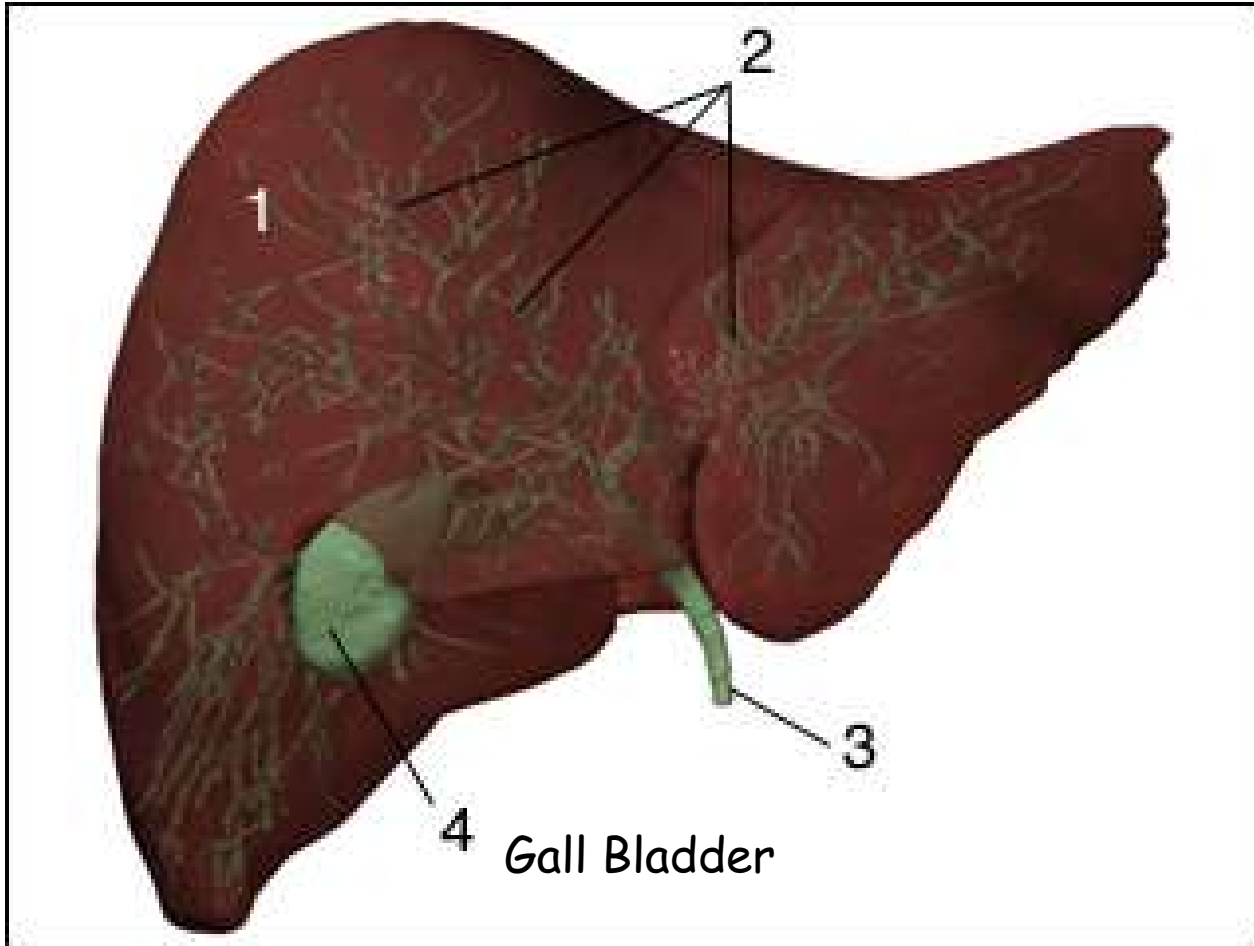


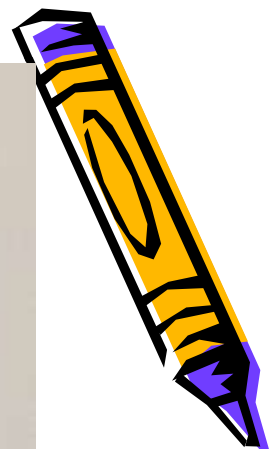
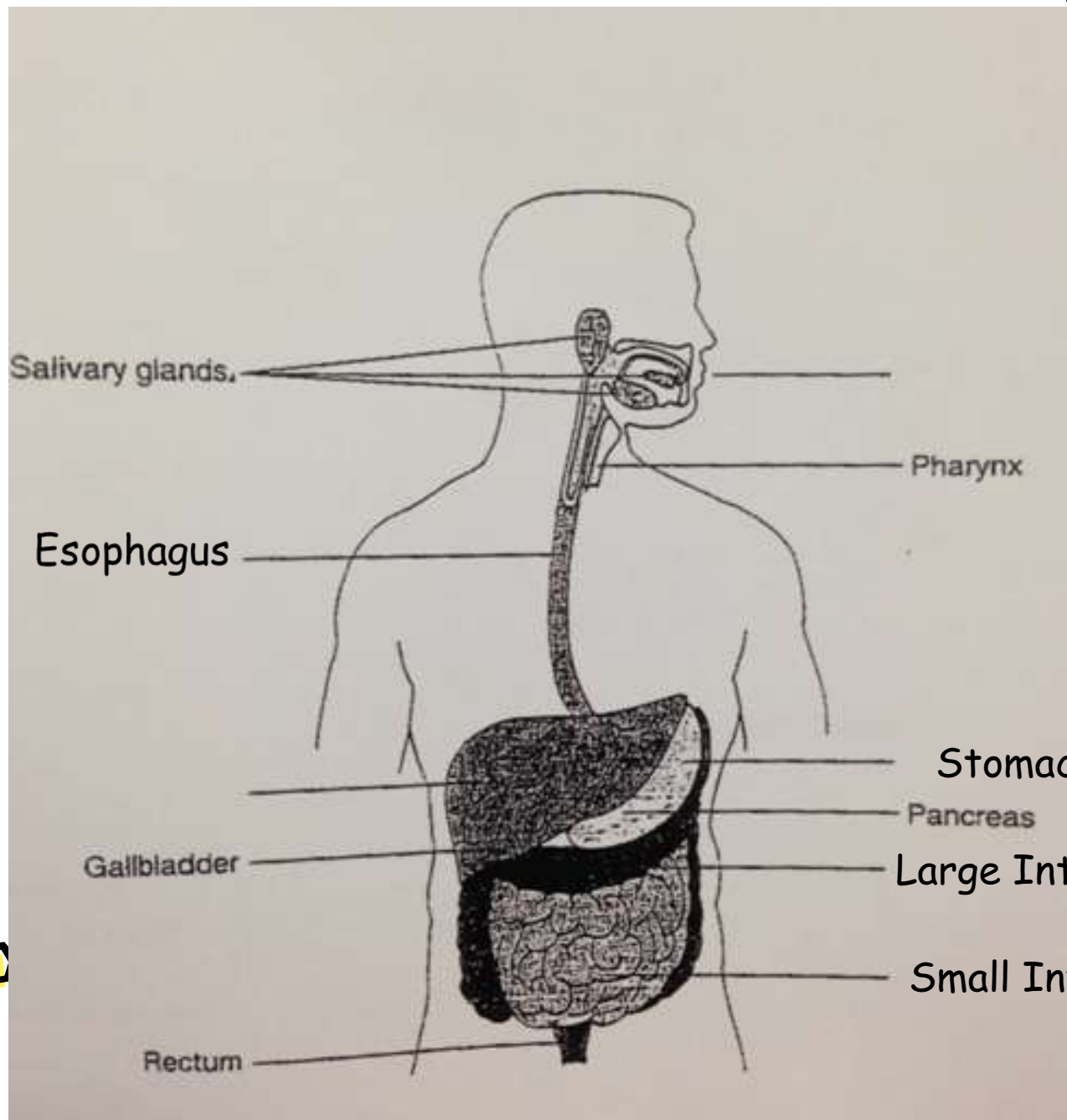
Gall Bladder



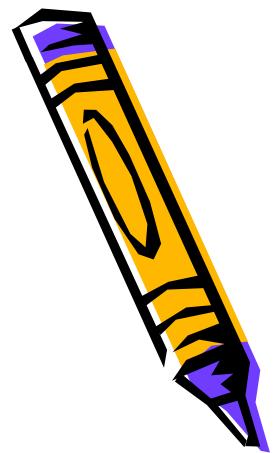
- Storage tank for bile (a greenish-yellow liquid) that helps your body break down and use fats
- Very small- about the size of a golf ball & **green** from the bile
- Located under your liver
- Shaped like a pear







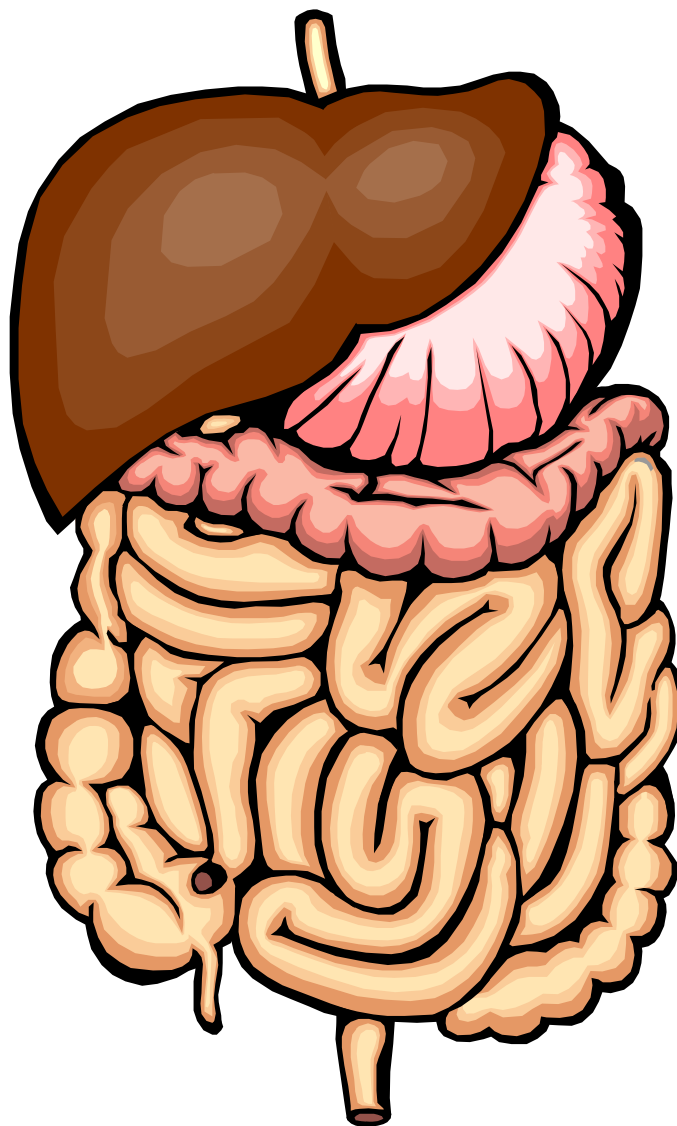
Liver

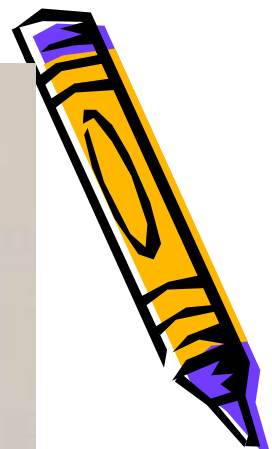
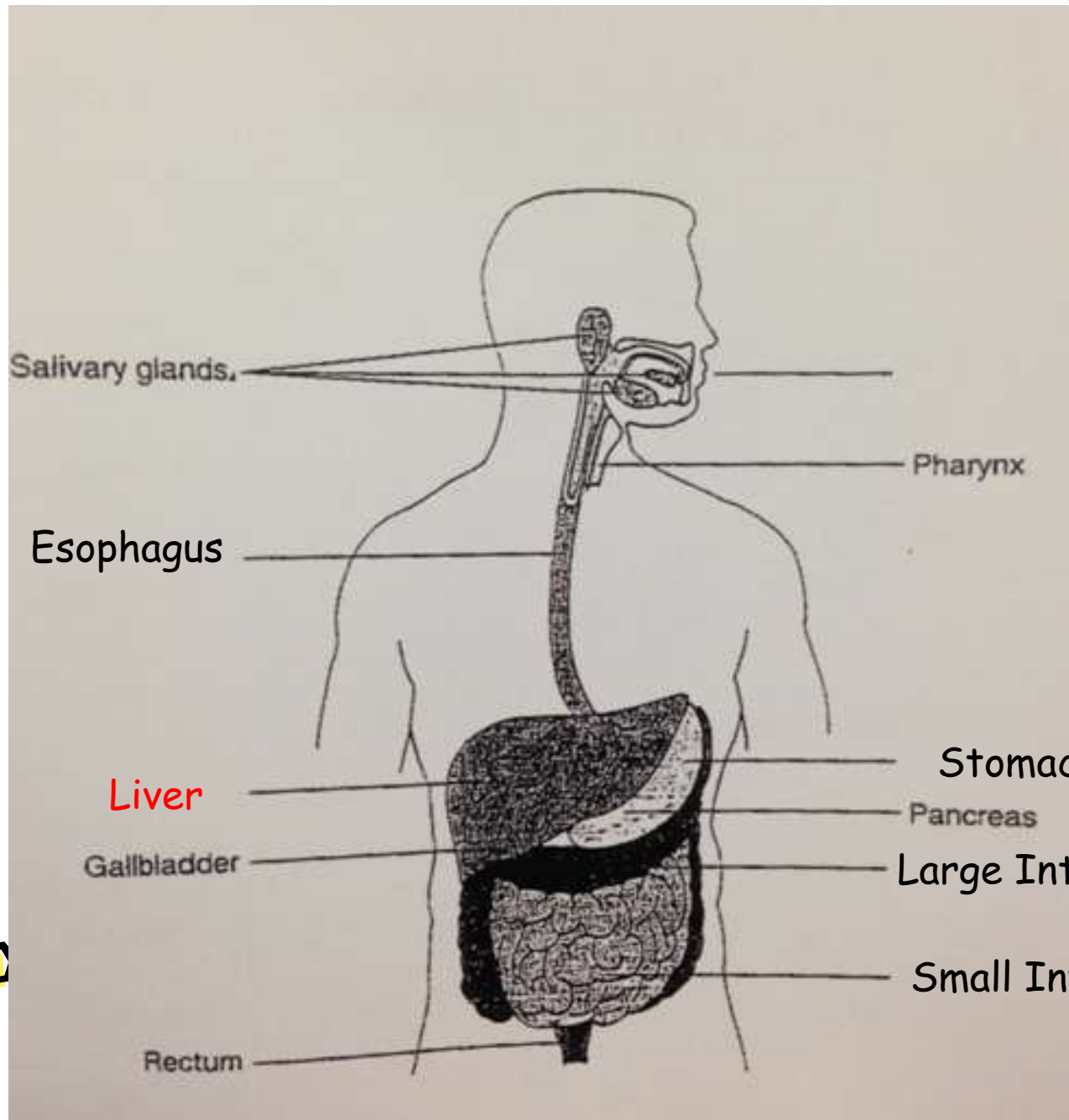


- Factory for antibodies and bile
- Stores vitamins and sugars until your body needs them
- Eliminates poisons from your body by filtering.



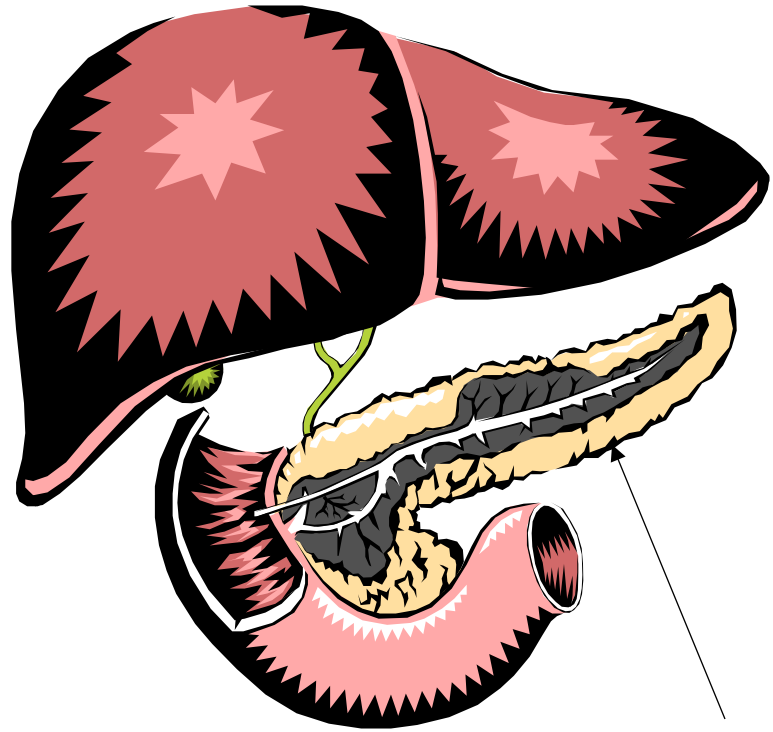
Liver



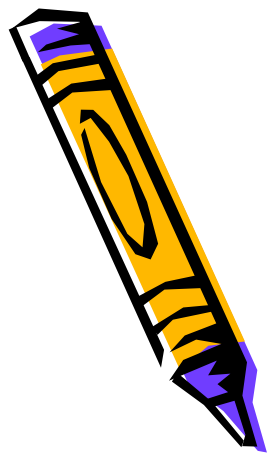


Pancreas

- Helps you digest food by breaking down sugars
- Produces insulin to control blood sugar levels



Pancreas

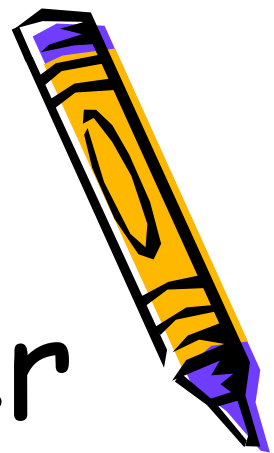
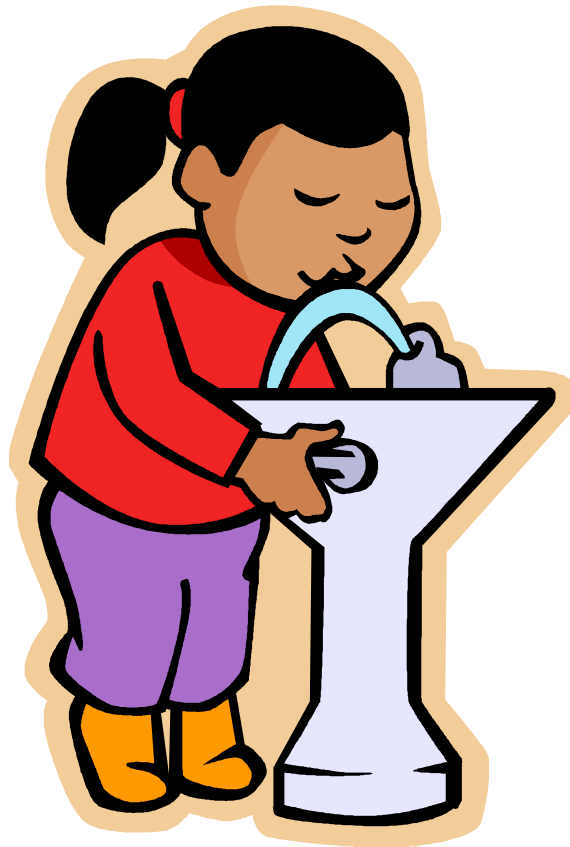


Healthy Habits

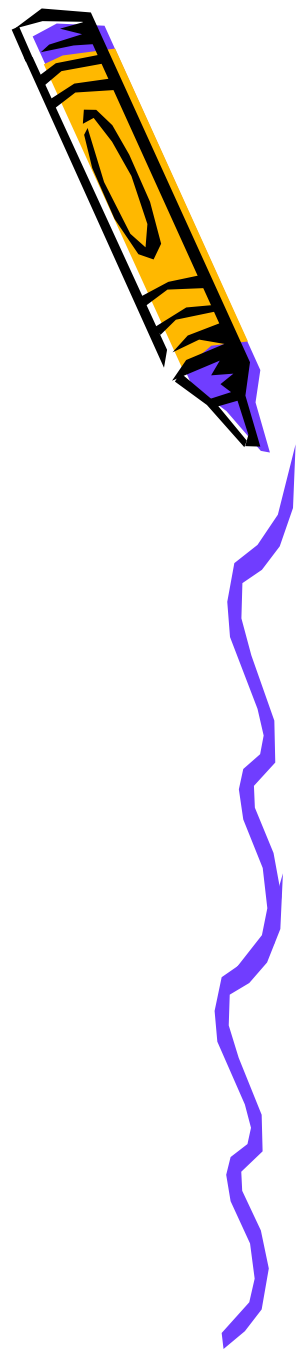
- Eat foods that are high in fiber like fruits and vegetables



- Drink plenty of water



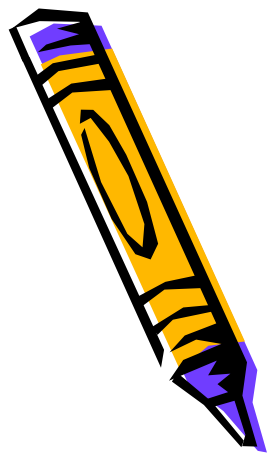
- Chew your food completely before you swallow



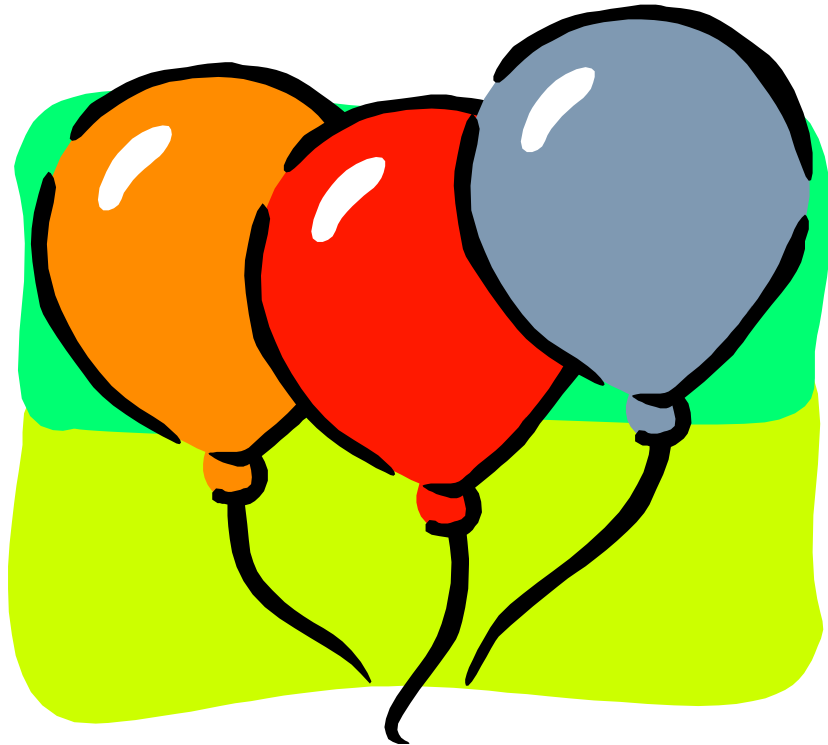
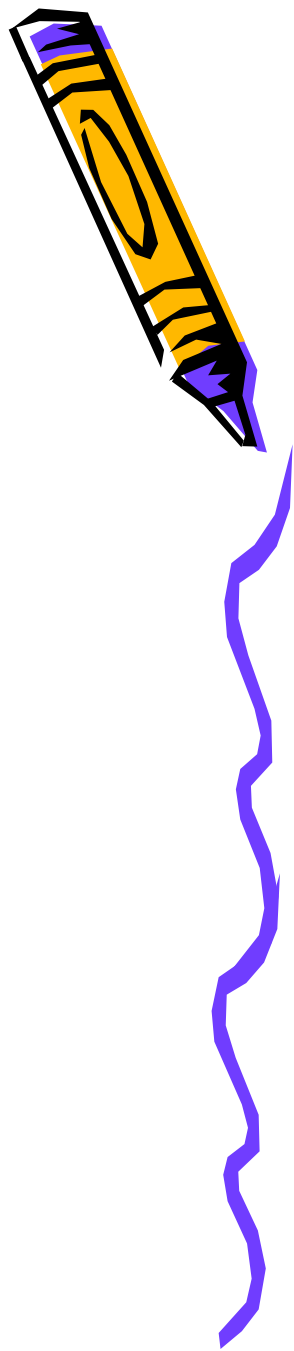


Interesting Facts

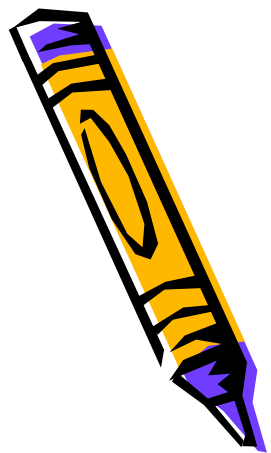
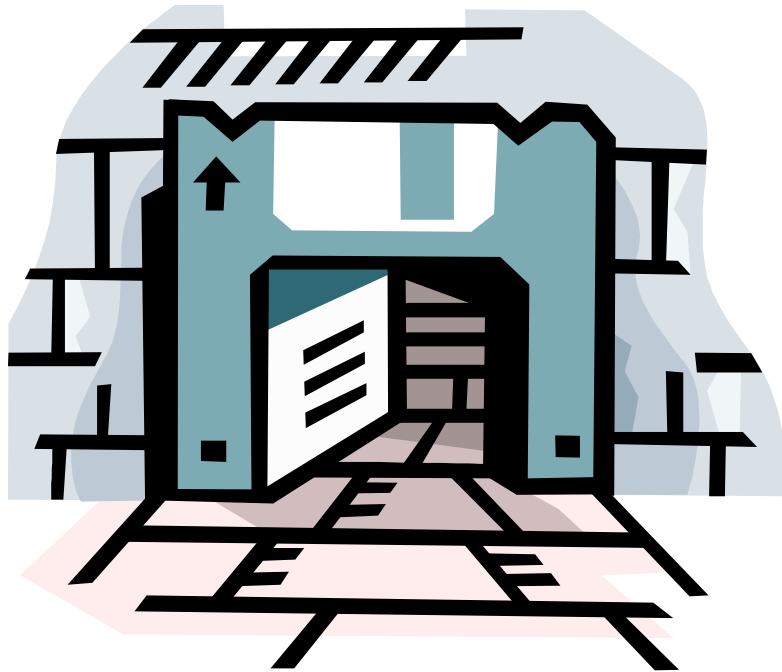
- Food is in your digestive system for about 24 hours



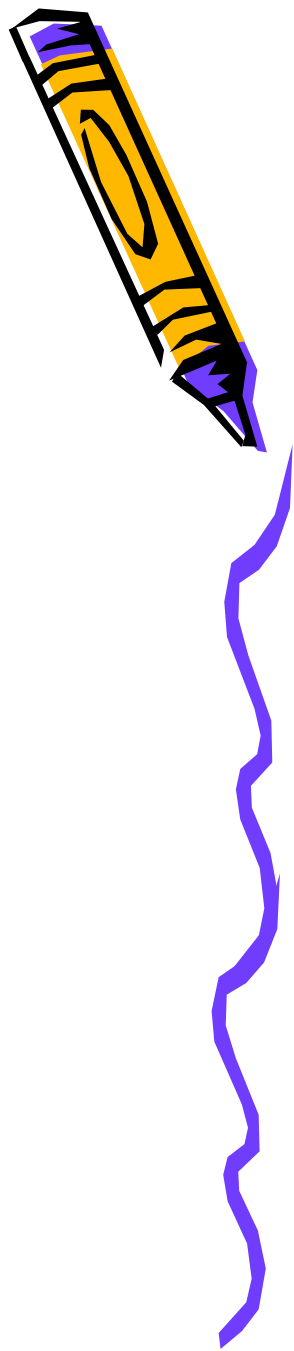
- Your stomach stretches when you eat like a balloon being filled with air



- You have a trap door called the epiglottis to cover your windpipe when you swallow. When this malfunctions, you choke!



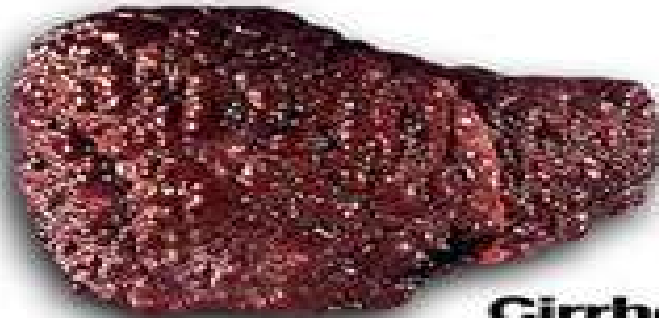
- Your stomach mashes your food the way a baker kneads dough for bread.



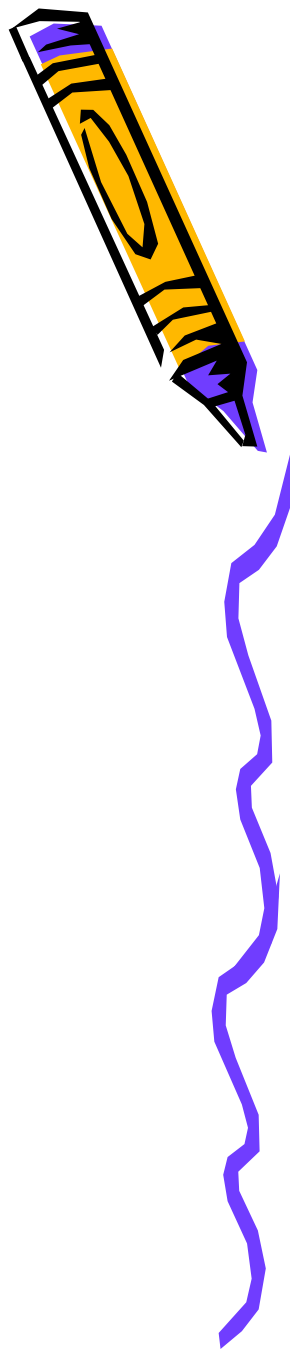
When good organs go bad: Cirrhosis of the liver



Healthy



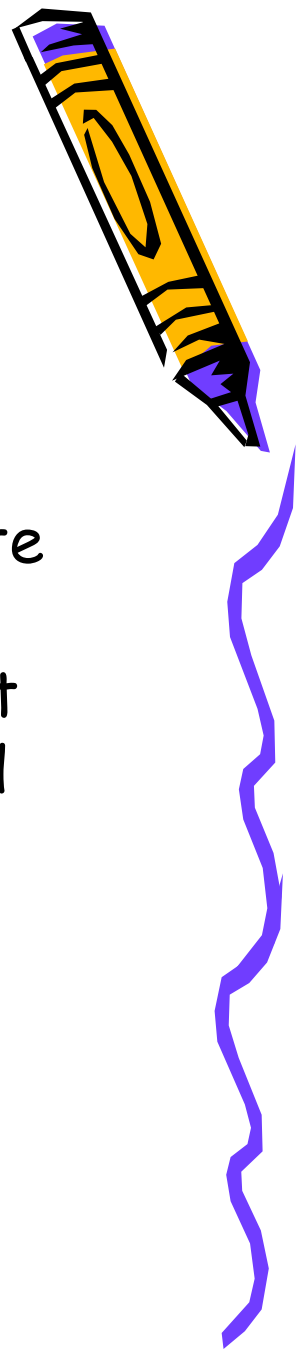
Cirrhosis



When good tissues go bad: "Hairy Tongue"



This occurs when the taste buds fail to slough off. It can be caused by using too much mouthwash/ listerine strips.



Summary

Functions

- Digests food
- Absorbs nutrients for the body

Components

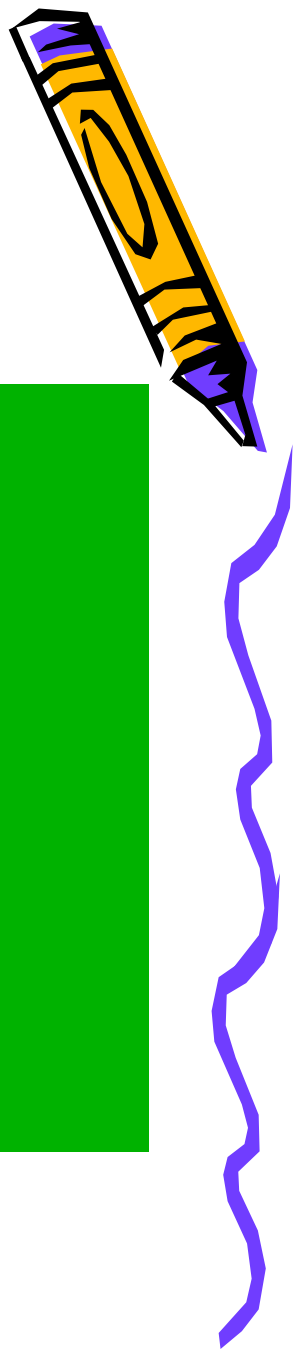
- Esophagus
- Stomach
- Small intestine
- Large intestine
- Pancreas
- Liver
- Gall Bladder



Summary

Healthy Habits

- Eat high fiber foods
- Drink lots of water
- Chew food well
- Avoid high-fat foods

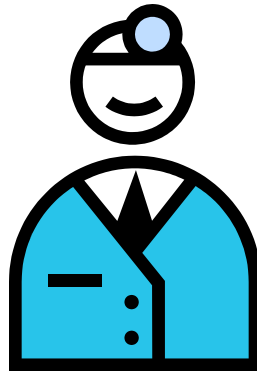


Career Connection

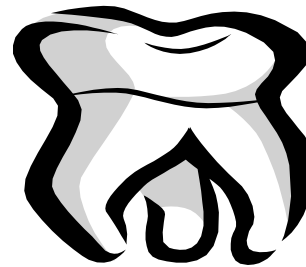
- What careers relate to the digestive system?



Dietician
\$30,000+/yr



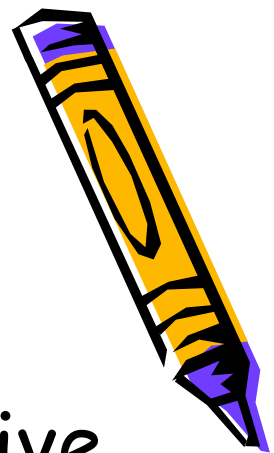
Gastroenterologist
\$200,000+/yr

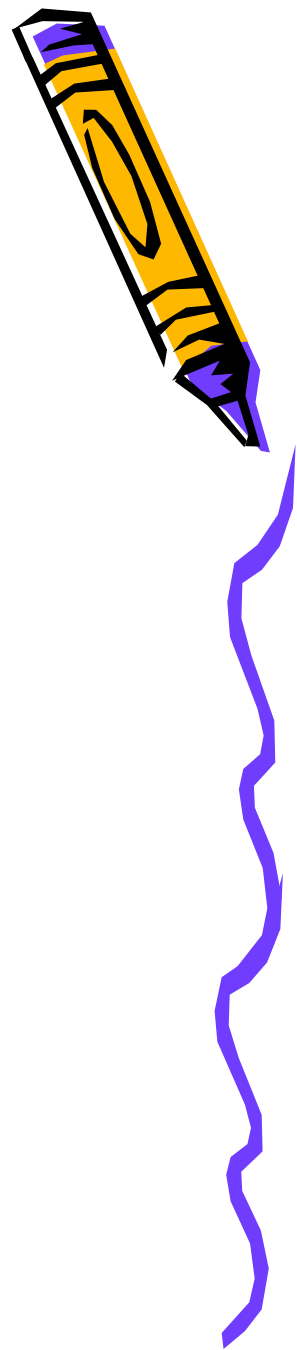
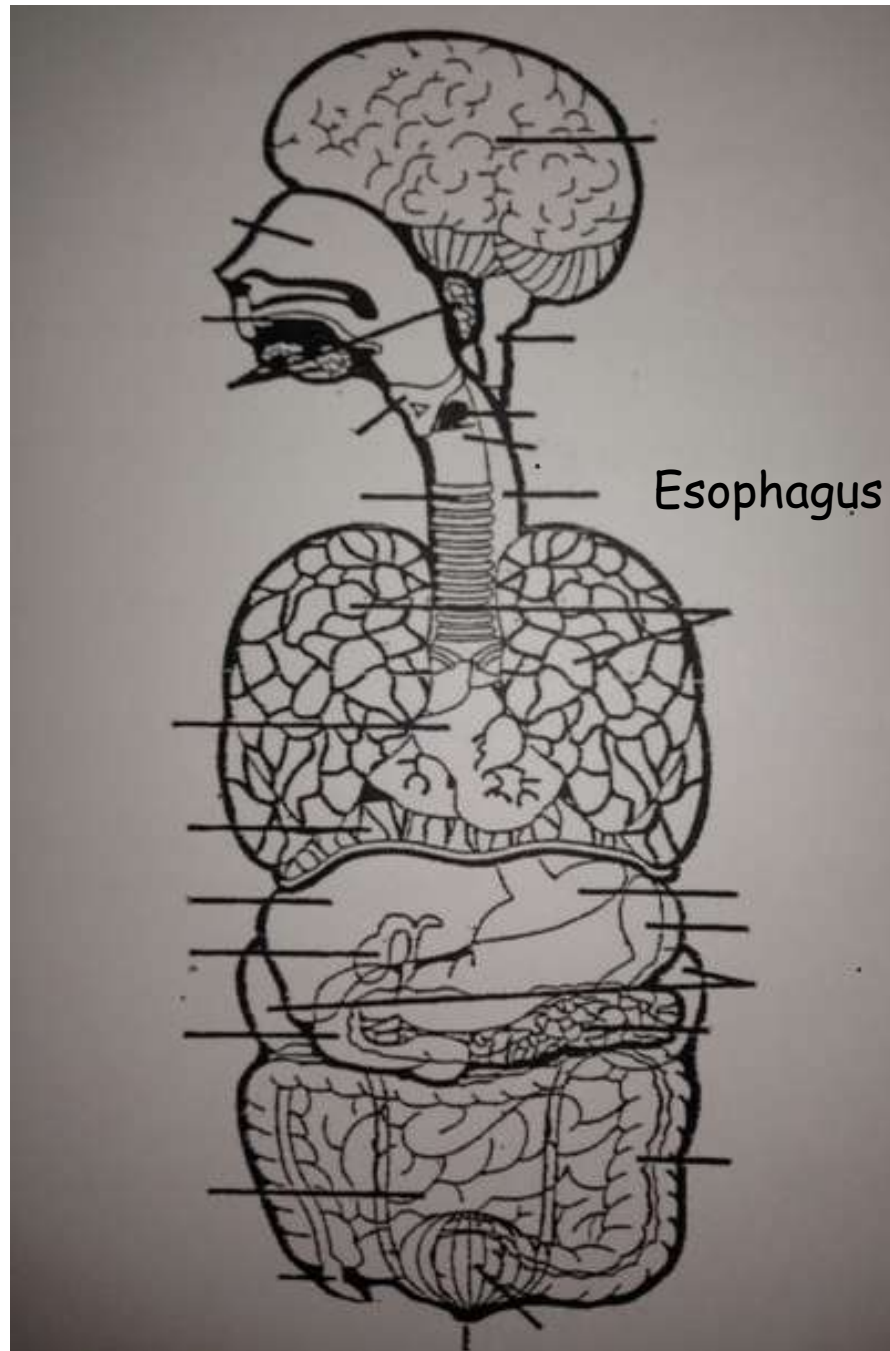
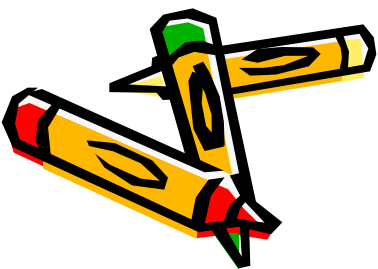


Dental Tech
\$27,000

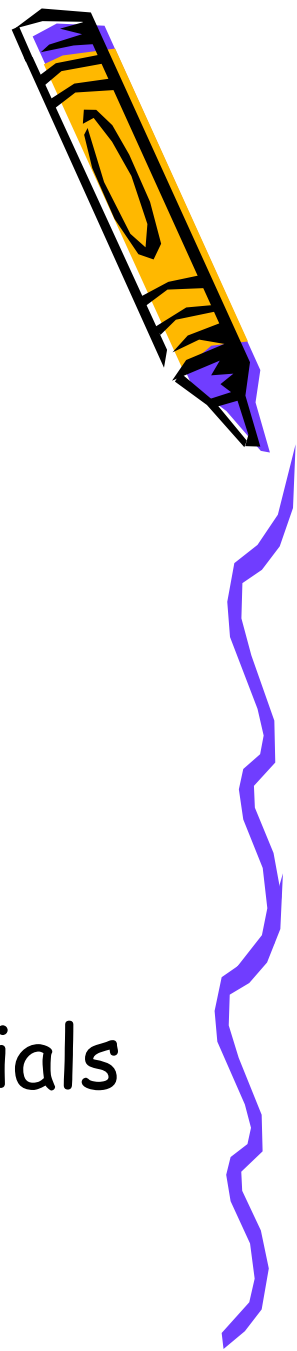


Food Taster
\$21,000





Works Cited



- Microsoft ClipArt
- Microsoft Encarta Encyclopedia
- My Body: Teacher Created Materials

