October 29, 2017

2-D model instructions- day 2

- Color (use key)
- Cut out small intestine, liver, pancreas, large intestine
- **USE TAPE** TO attach according to the following:
    1. glue place the small intestines on the <u>center about 6 inches from top</u> of page **<u>46</u>**
    2. attach head/mouth to esophagus and then (# 1) to the small intestine (see label)
    3. attach stomach (#2) to small intestine
       place pancreas **UNDER** stomach
    4. attach large intestines (#3) **OVER** small intestines
    5. place liver **OVER** stomach and part of large intestine

YOUR MODEL IS COMPLETE

MAKE SURE ALL ORGANS ARE LABELED

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Digestive System

Location	What's happening
mouth	• mechanical digestion - teeth grind and tear food into smaller pieces • chemical digestion - saliva (with enzymes) starts to chemically break apart food particles
esophagus	• Muscles contract and push food (called peristalsis)
stomach	• mechanical digestion - layers of muscles squeeze and mix food • chemical digestion - chemicals (enzymes) and acids digest food • food looks like "baby food" when the stomach is done with it!
small intestine	• With the help of chemicals from the pancreas and liver, chemical digestion is completed • Nutrients are absorbed into the blood --The blood can carry nutrients to every place in the body because ALL parts of the body need nutrients to live! --There are villi that help to absorb more nutrients
pancreas	• Makes chemicals called enzymes that flow into the small intestine • Helps to break down starch, proteins, and fats
liver	• Makes bile -- bile breaks fat into smaller droplets for easier digestion -- bile is stored in the gall bladder
large intestine	• What enters is mostly leftover undigested food, fiber, and water • The water is absorbed into your blood, leaving solid waste • Solid waste is stored in the rectum before being pushed out the anus • Good bacteria live in our large intestine and help to break down fiber that we otherwise could not digest, make some vitamins, and keep out some bad bacteria (tradeoff: they do make odors!) • Much of feces (poop) is made up of these bacteria as well as the undigested waste