Names: _____

Digestive System Model

Follow these steps:

1. Place the banana and crackers inside the ziplock bag (“eat”). Slowly add A LITTLE BIT of water (“saliva”).

2. LET ALL THE AIR OUT and zip the bag shut. Then smash all the ingredients with your hands until no more clumps are present (“chew”) your mix.

3. Squeeze the food into one end of the bag – it went from the mouth via the esophagus to the stomach. Add some acid to the mix (lemon? vinegar?) and continue mashing it.

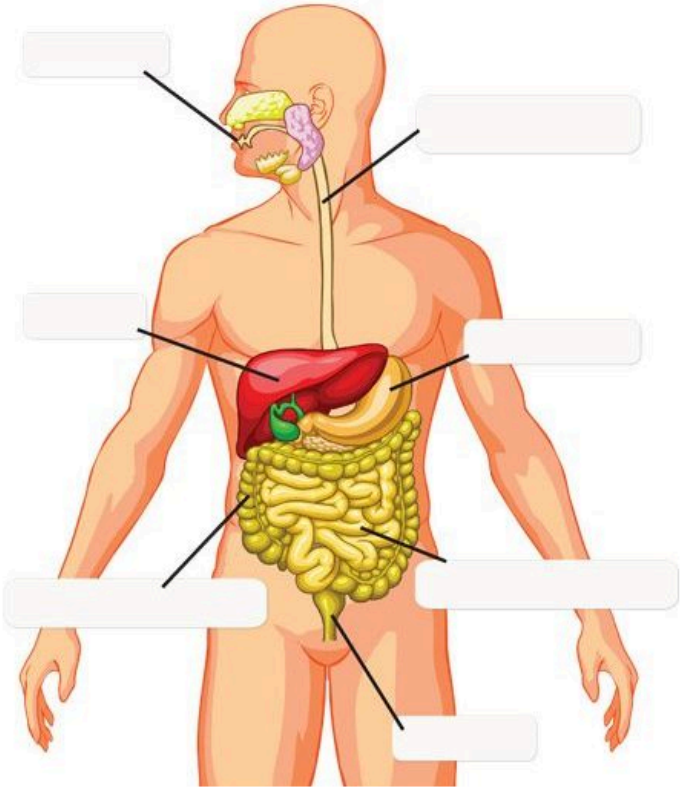
4. From the stomach, the snack needs to pass into the tights (small intestine). Tilt the bag up slightly and cut a small hole in one corner of the bag. (The corner where you’re not tipping the mix towards!) Squeeze the contents of the bag into the cut-off tights while holding everything above the trey/bowl.

5. Squeeze the food through the tights. Keep squeezing to let the liquid run out. (Note that the water is actually absorbed in the large intestines!)

6. Eventually, cut the toe off the tights and squeeze the waste food out into the plastic/paper cup (“large intestine”). Make sure to cut off a SMALL (1 cm radius) hole on the bottom of the cup (“anus”).

7. Finally, push the waste food through the bottom of the cup onto the tray (to model going to the toilet).

Label and complete:



Structure (Organ)	Function	How was the function modeled in the simulation?
Mouth		
Esophagus		
Stomach		
Stomach acid		
Small intestine		
Nutrients		
Large intestine		
Anus		

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