









What did you eat today??



Why do we need food?



Why do we need food?



Provides fuel
for your body!



Why do we need food?

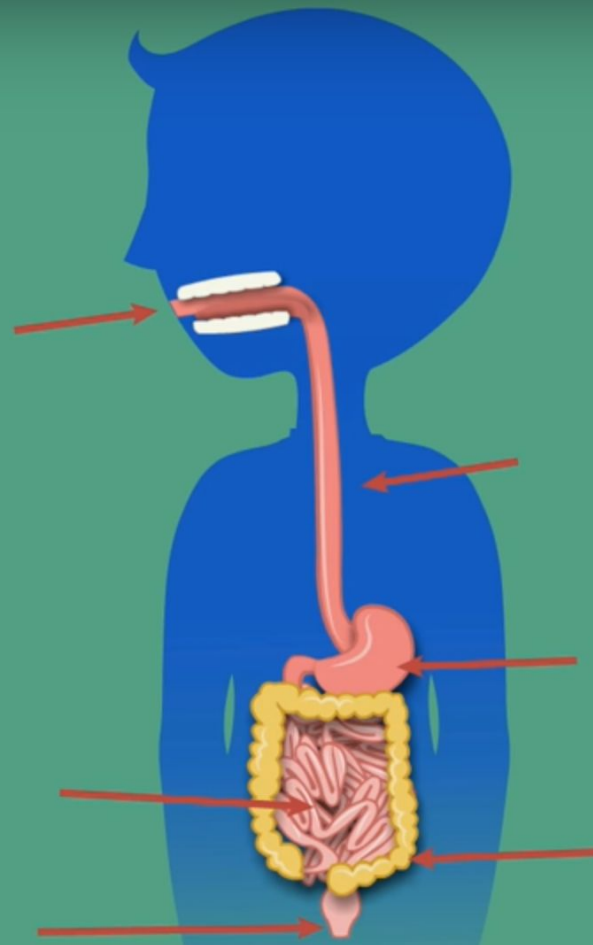


Provides nutrients
for your body!



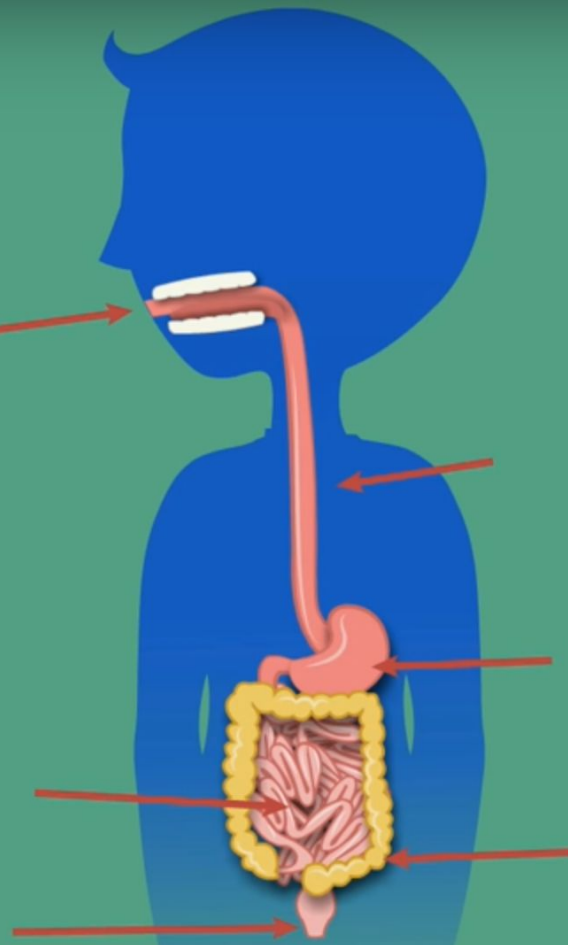
What happens to food after we eat it??

The Digestive System
is made up of:



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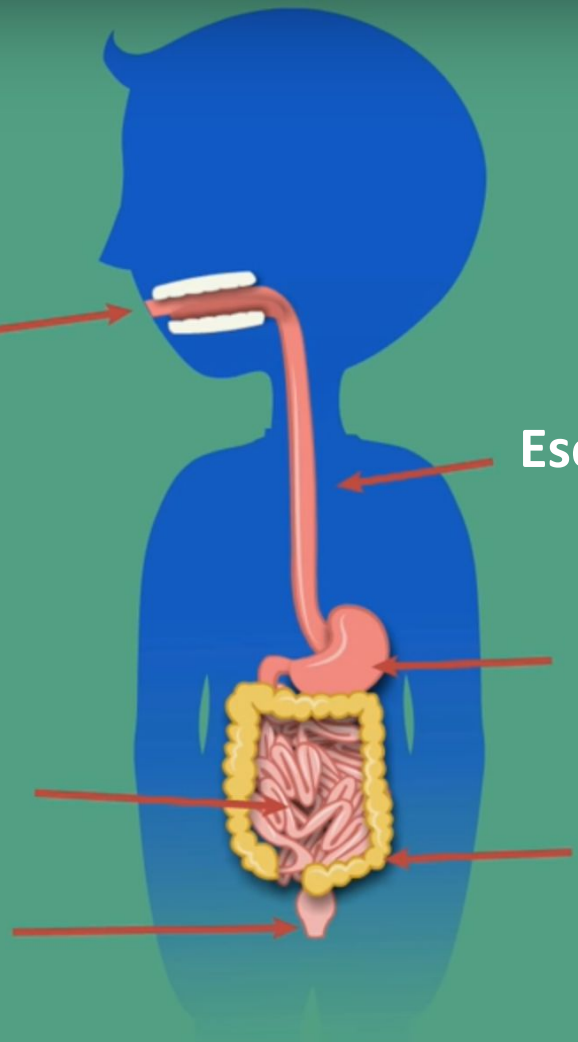
Mouth



The Digestive System is made up of:

Mouth

Esophagus

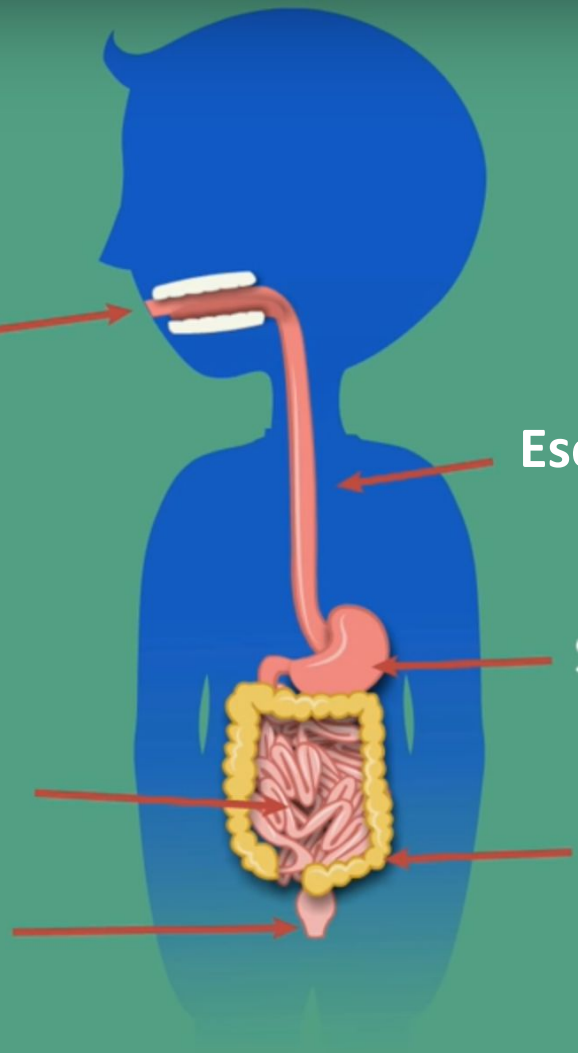


The Digestive System is made up of:

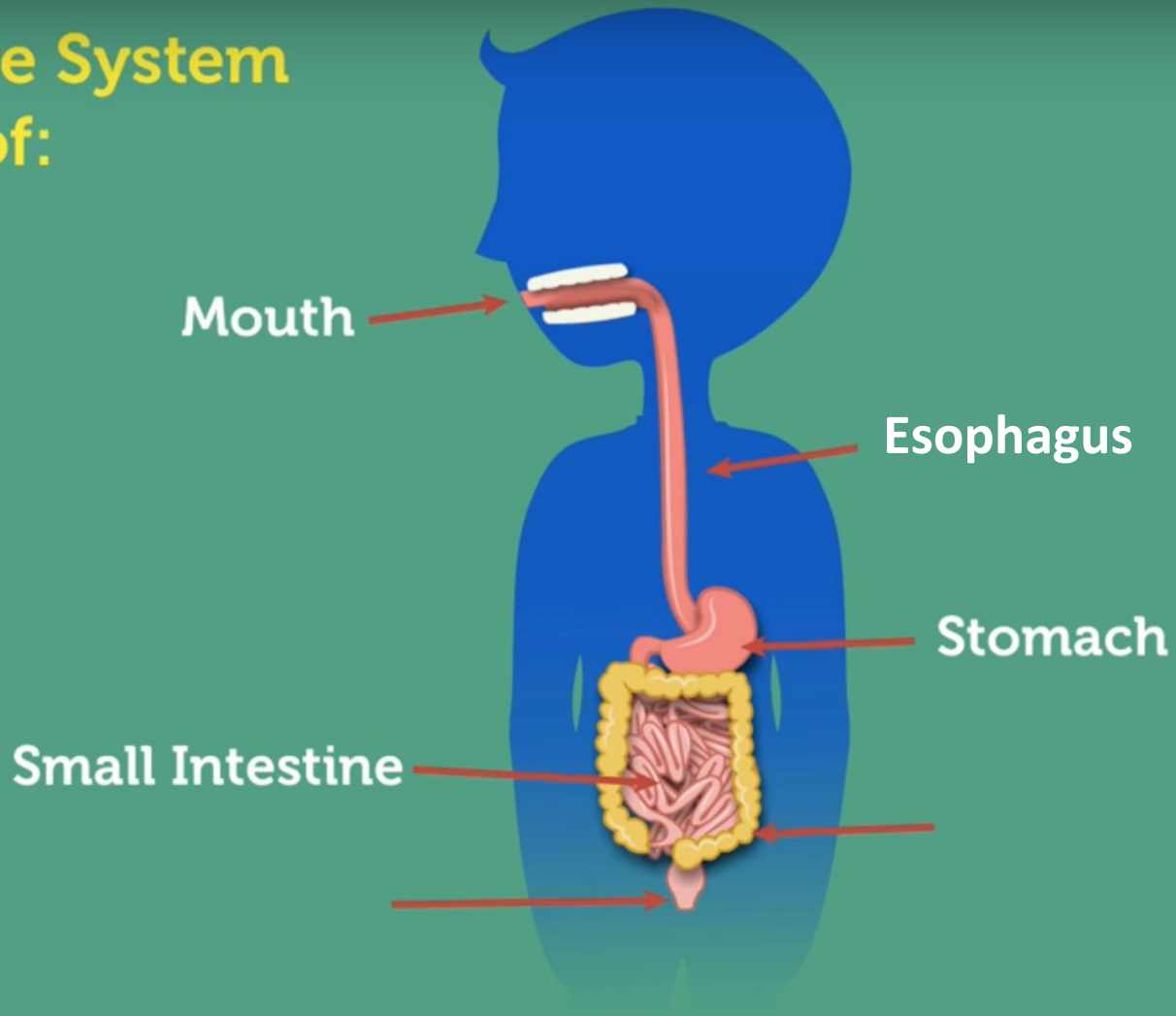
Mouth

Esophagus

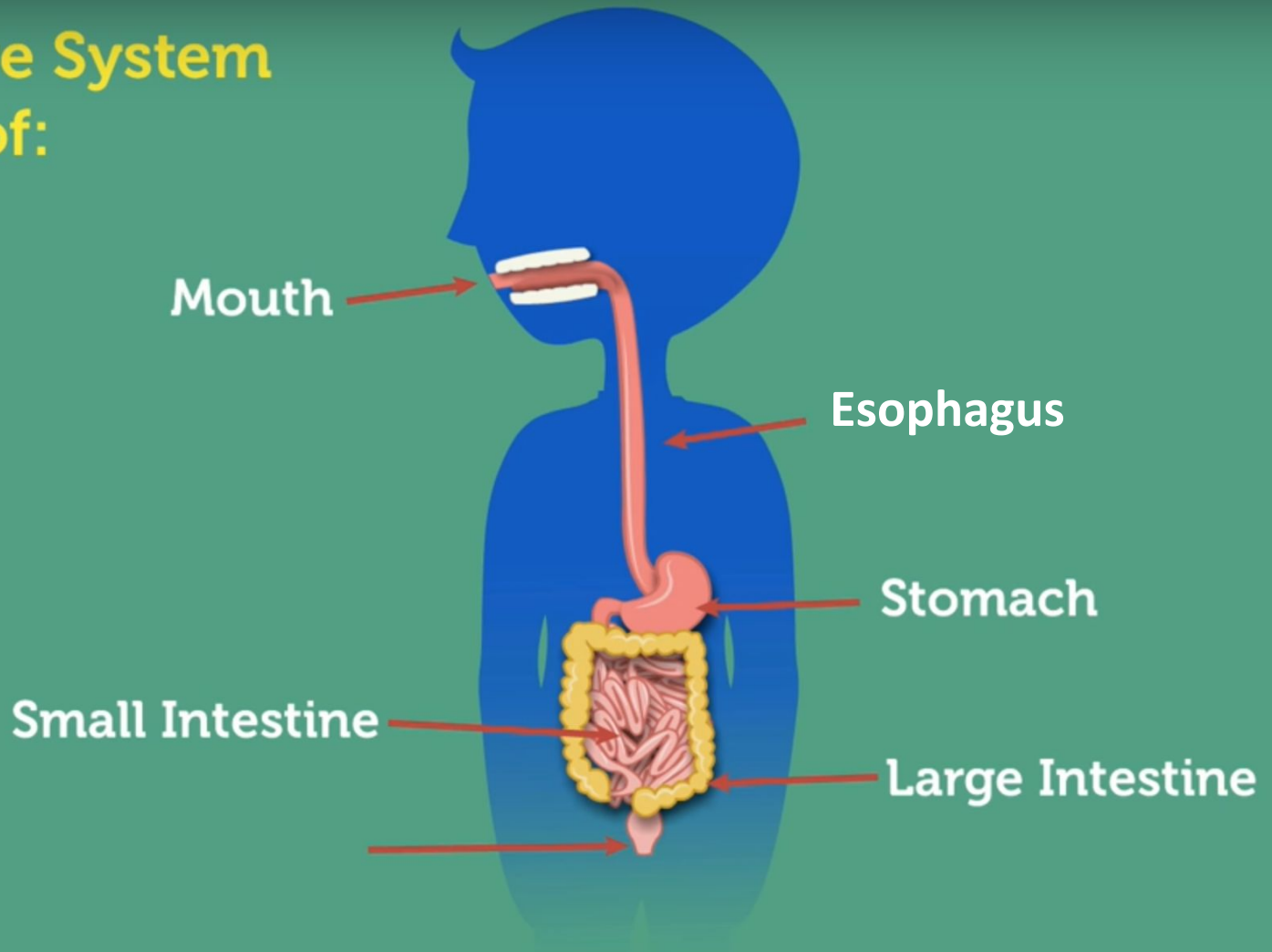
Stomach



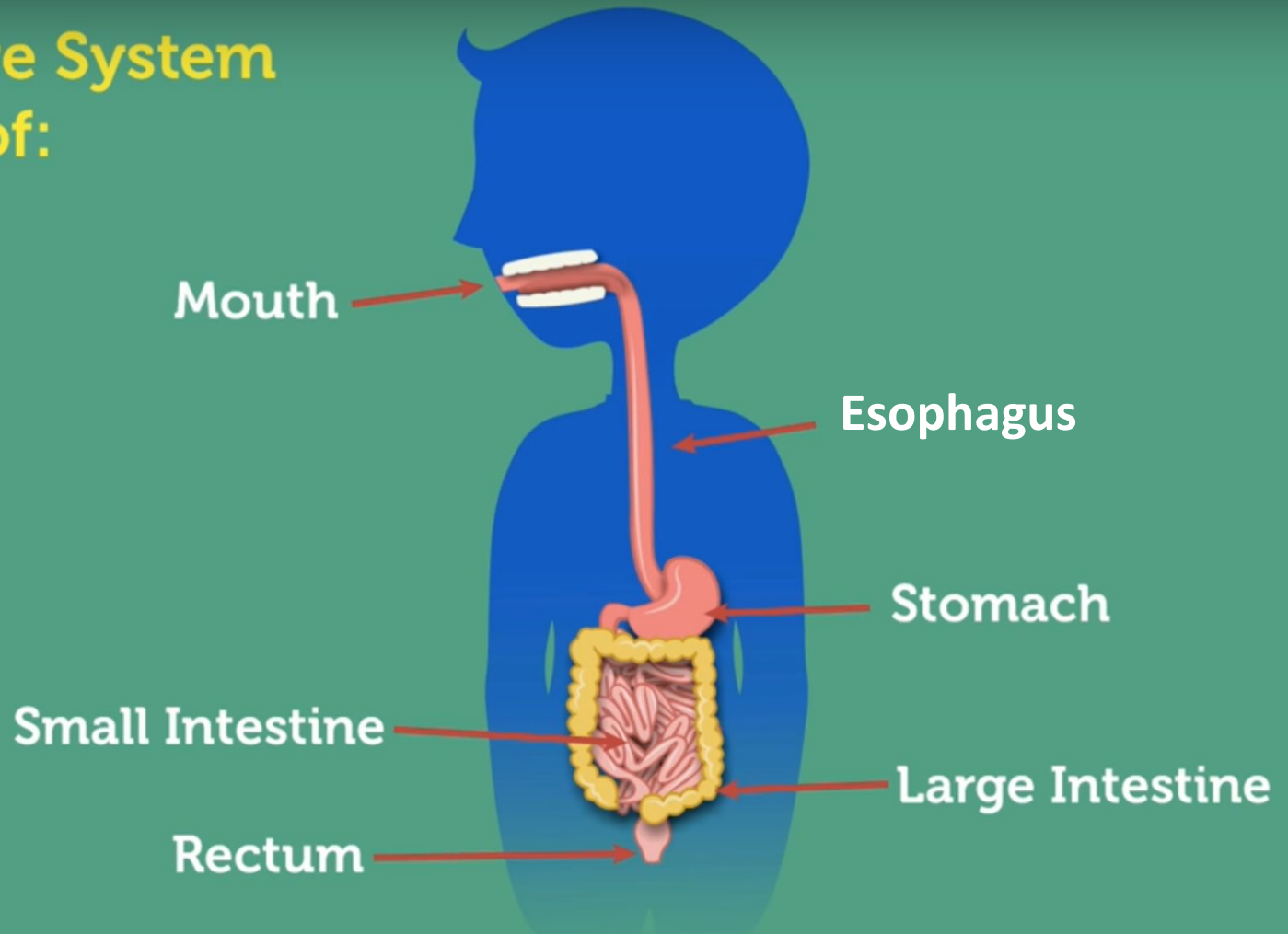
The Digestive System is made up of:



The Digestive System is made up of:



The Digestive System is made up of:



Question:

Where does digestion start??

WHEN YOU'RE IN CLASS



AND SOMEONE HAS FOOD

Mouth

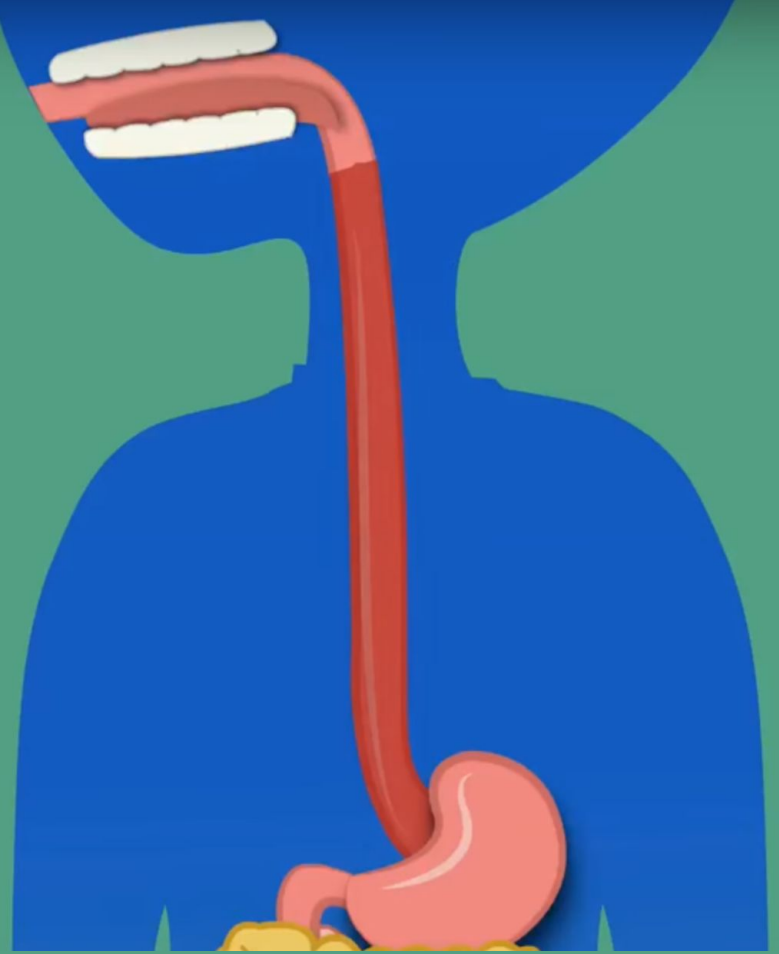


Mouth

Breaks down food!



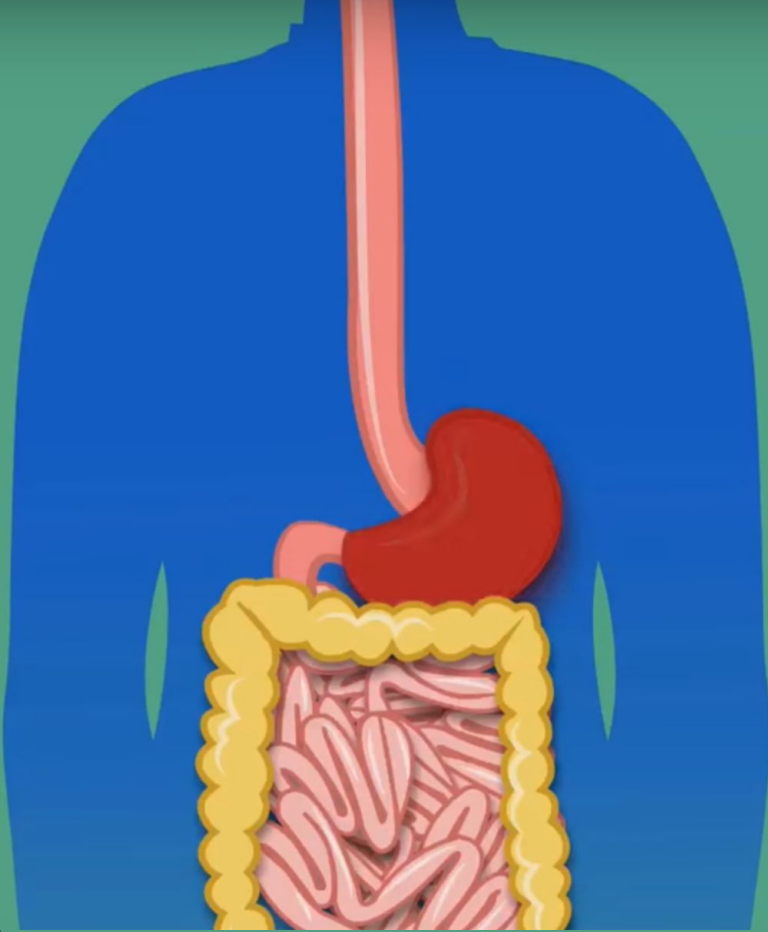
esophagus



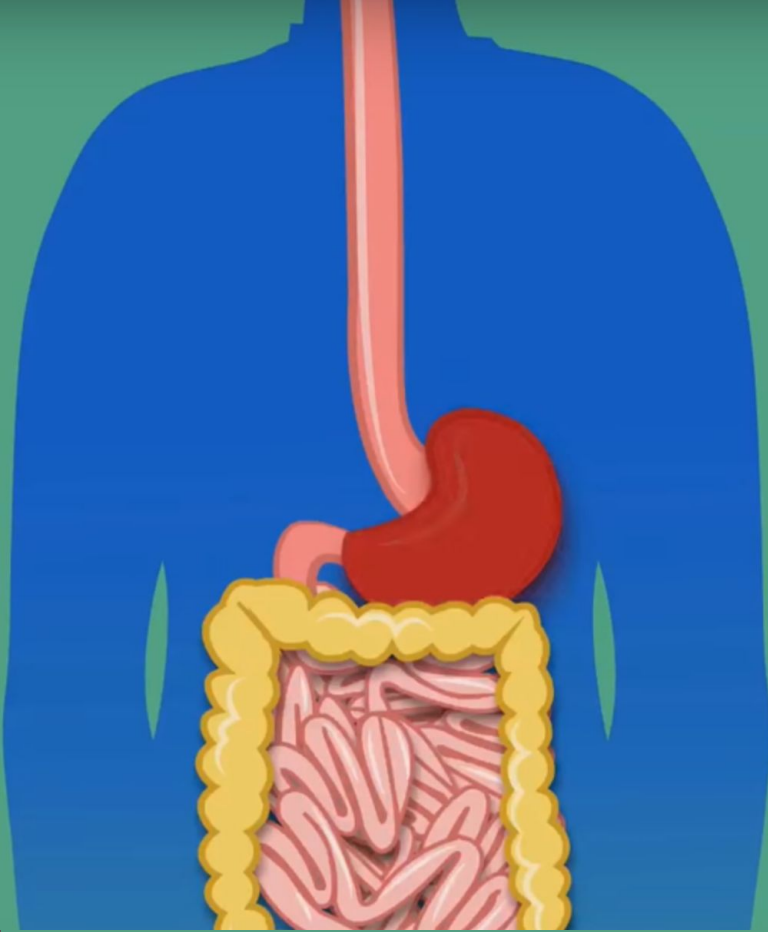
esophagus

Helps transport food!
(It's the food pipe!)



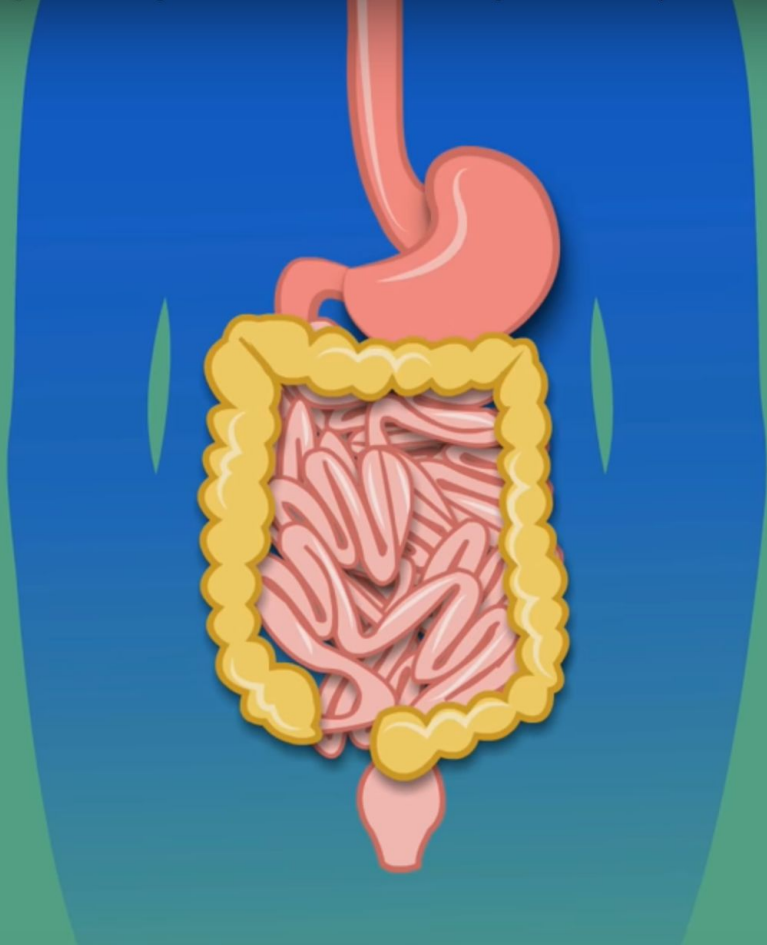


Stomach

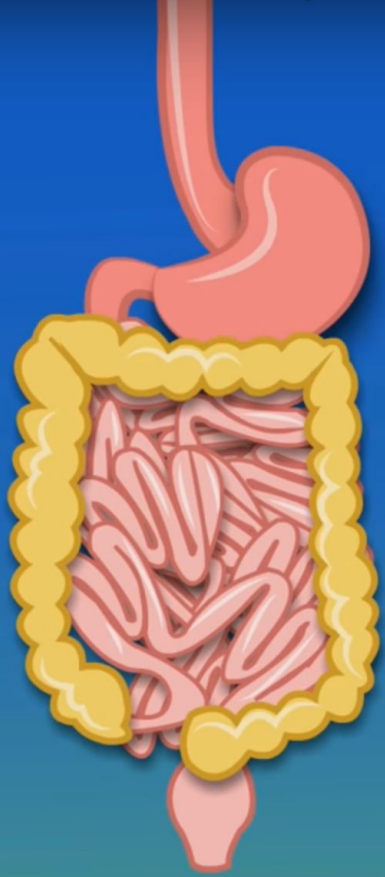


Stomach

Helps break down food
with stomach acid

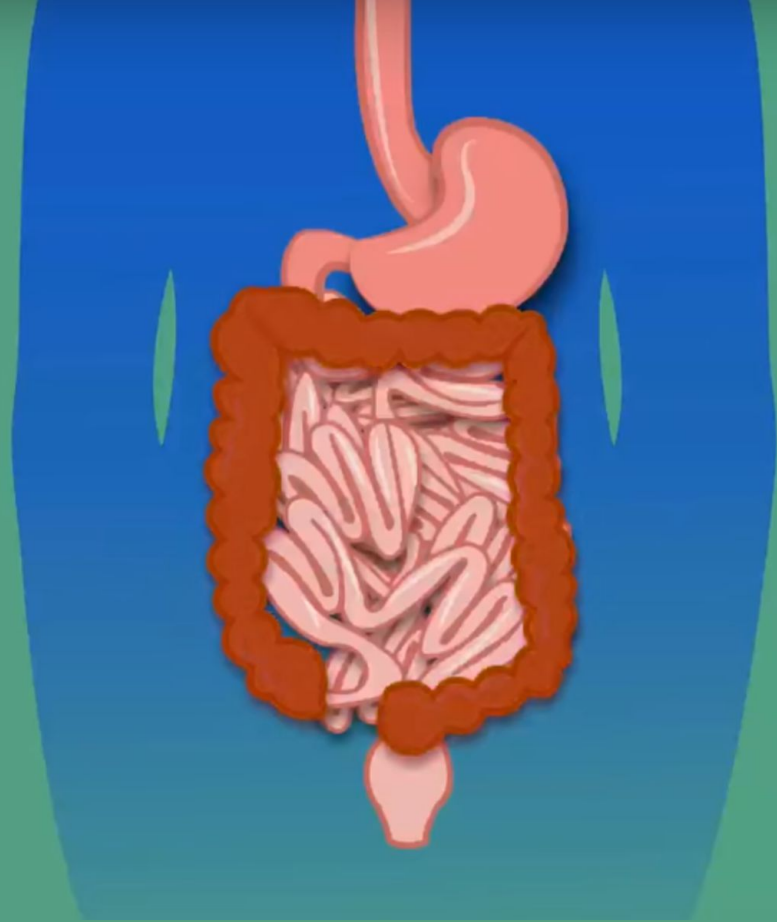


Small Intestine

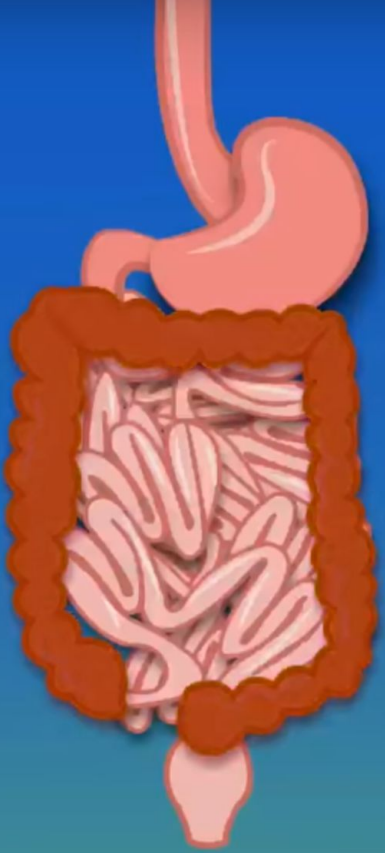


Small Intestine

Absorbs nutrients from the food you eat and puts those nutrients into the bloodstream!

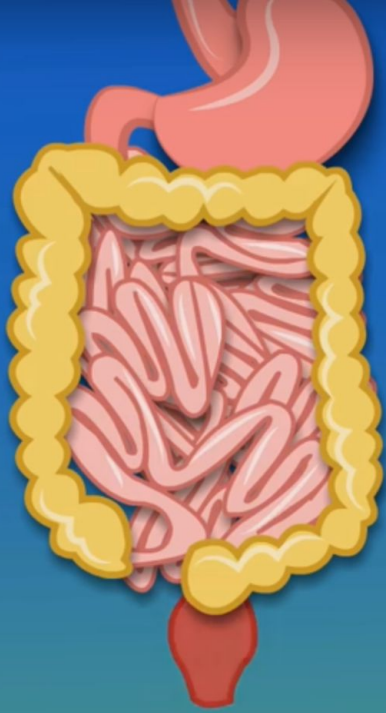


**Large
Intestine**

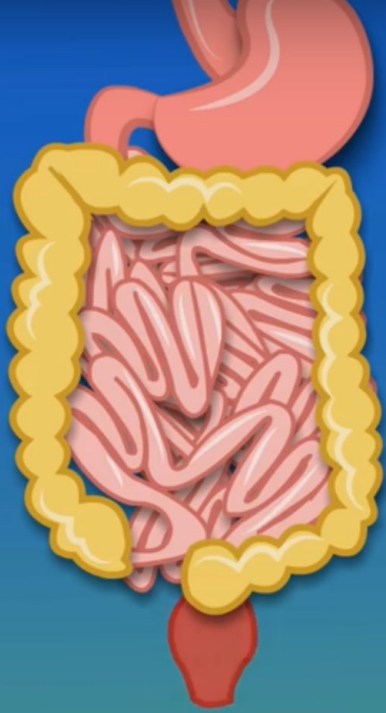


Large Intestine

Absorbs all the water
from your food!



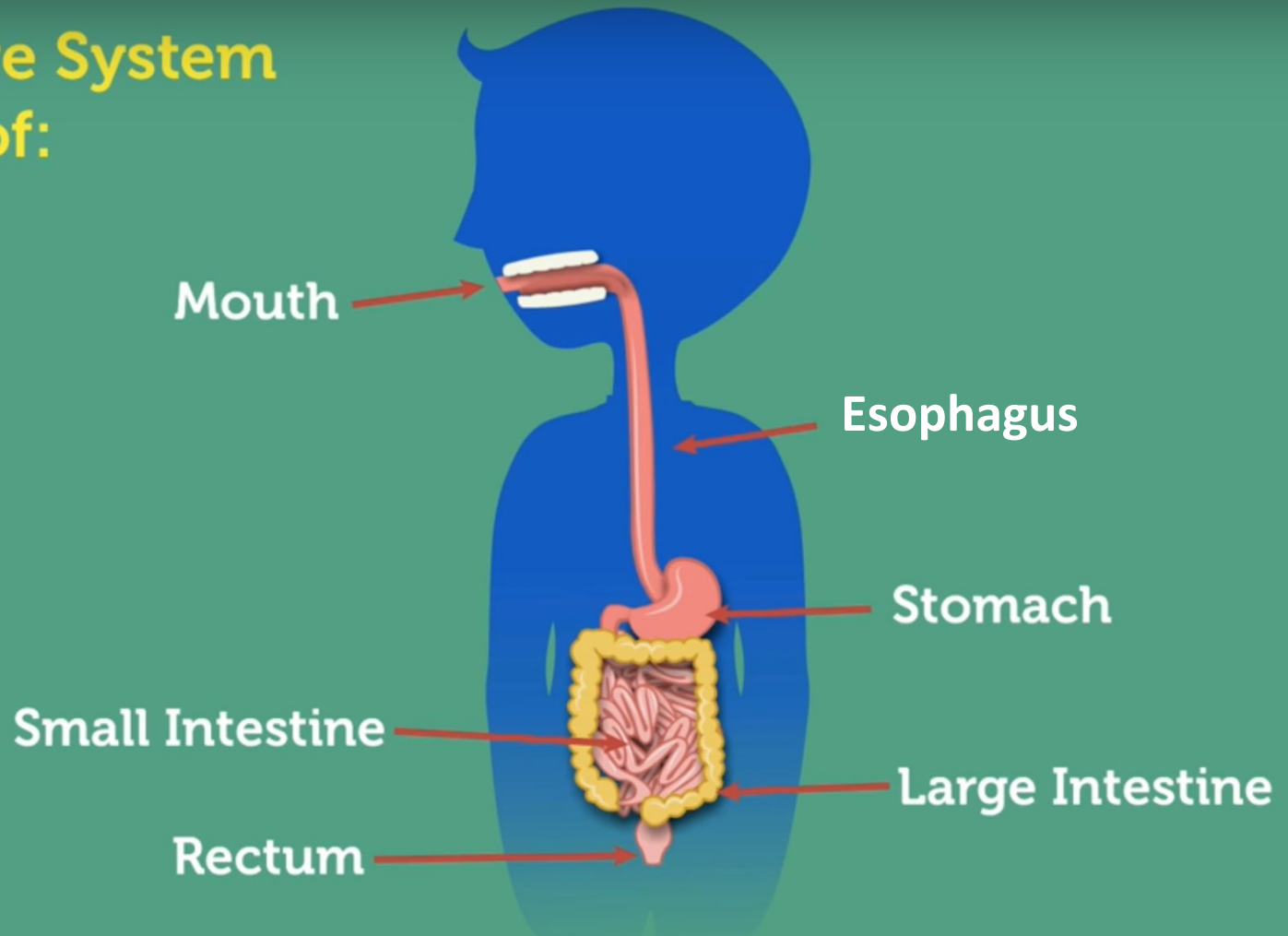
Rectum



Rectum

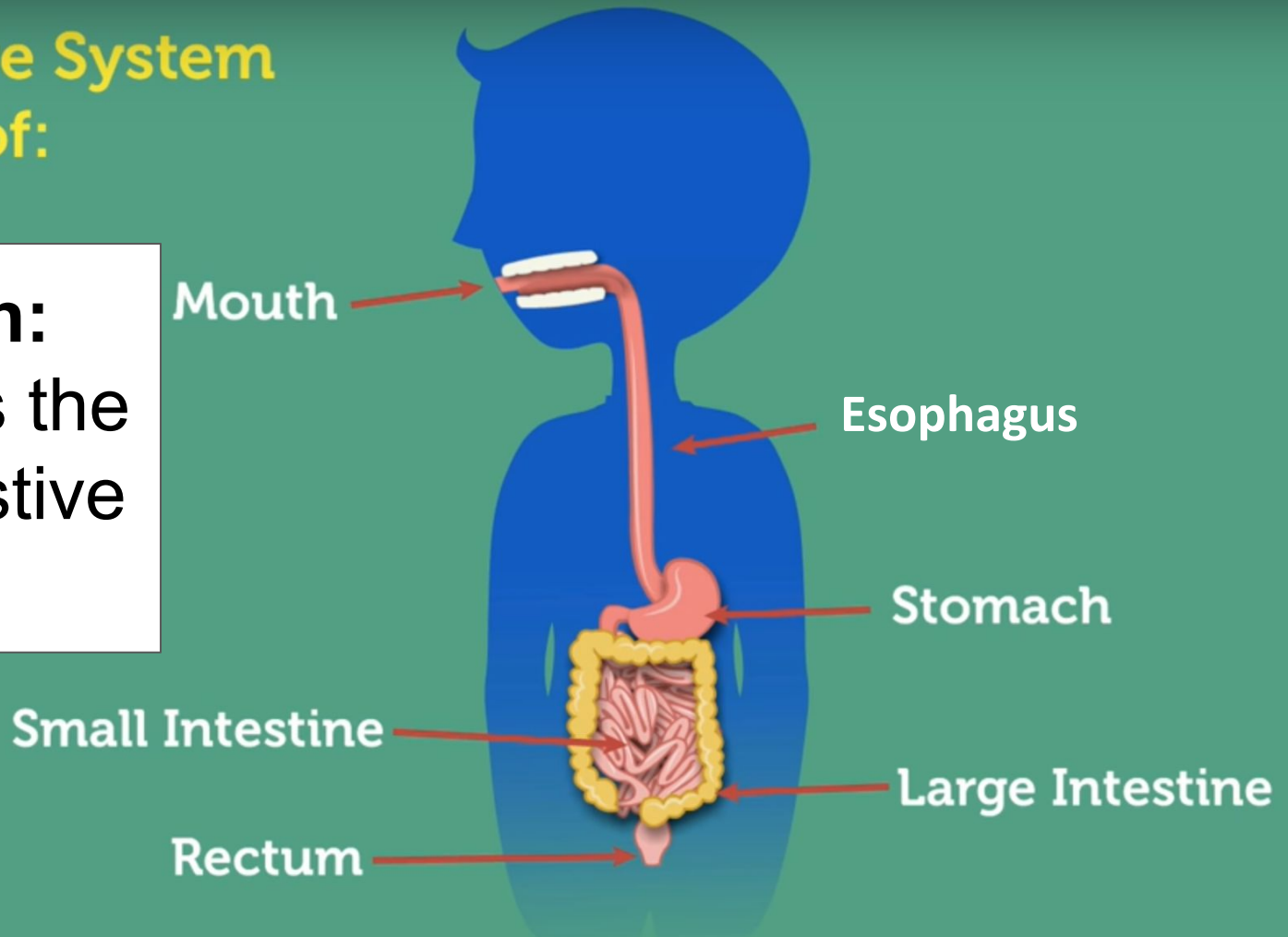
Holds on to all the stuff
we don't digest!

The Digestive System is made up of:

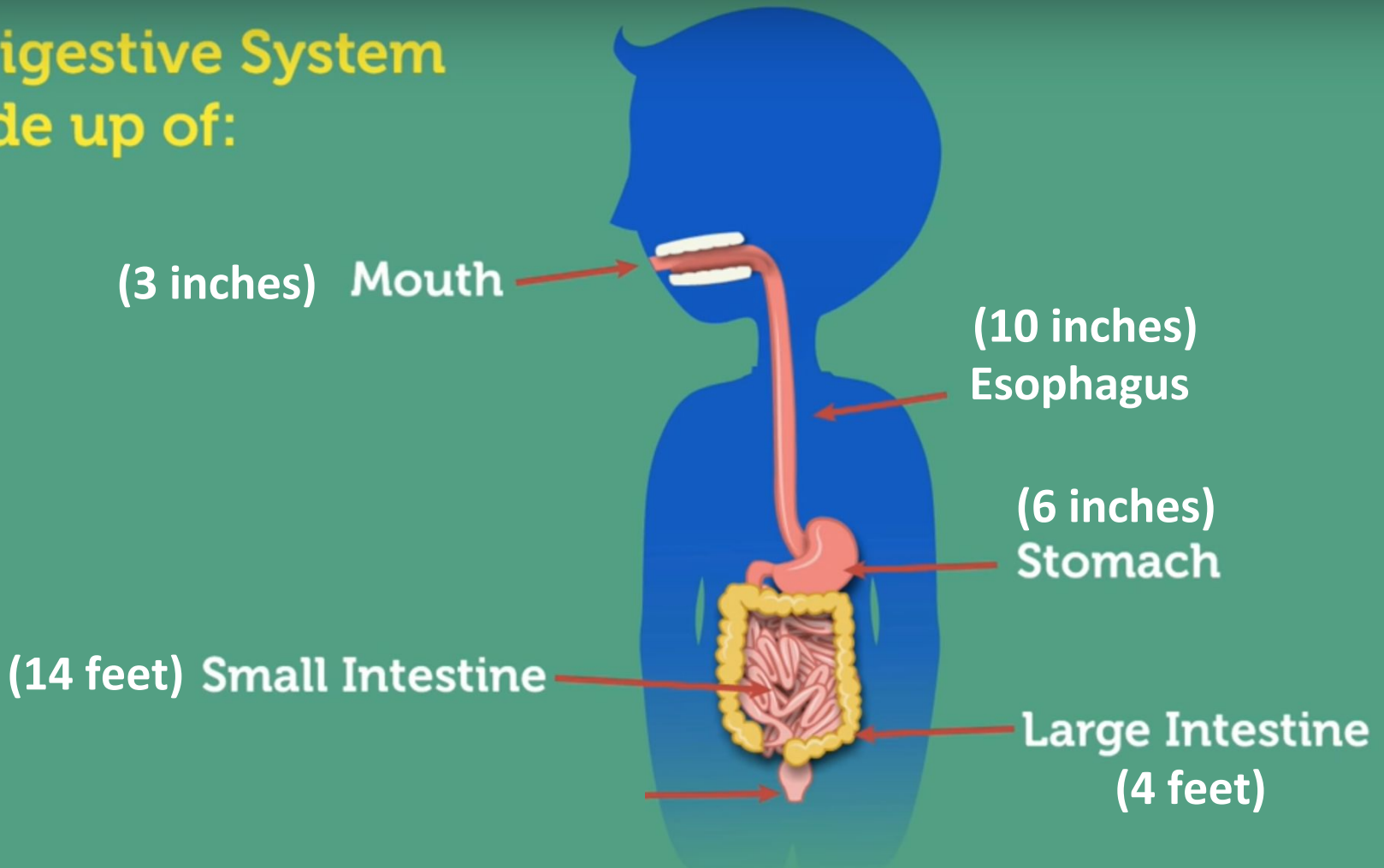


The Digestive System is made up of:

Question:
How long is the
entire digestive
tract??



The Digestive System is made up of:



Challenge question:

Why is the “small” intestine so long??

What are the end products of digestion?



Proteins



Amino Acids



Fats



Fatty Acids



Starch



Simple Sugars

Lets digest!!!

What do you need?

- 2 plastic bags (one big, one small)
- Food! (crackers, bread, banana)
- Scissors
- 2 plastic cups (water + orange juice)
- 3 paper cups (1 regular, 1 funnel, 1 with hole)
- 1 waste bucket

Before we start

Food is for science. . .

Not for eating!

(Do not eat the food!)

Step 1: Chew your food!



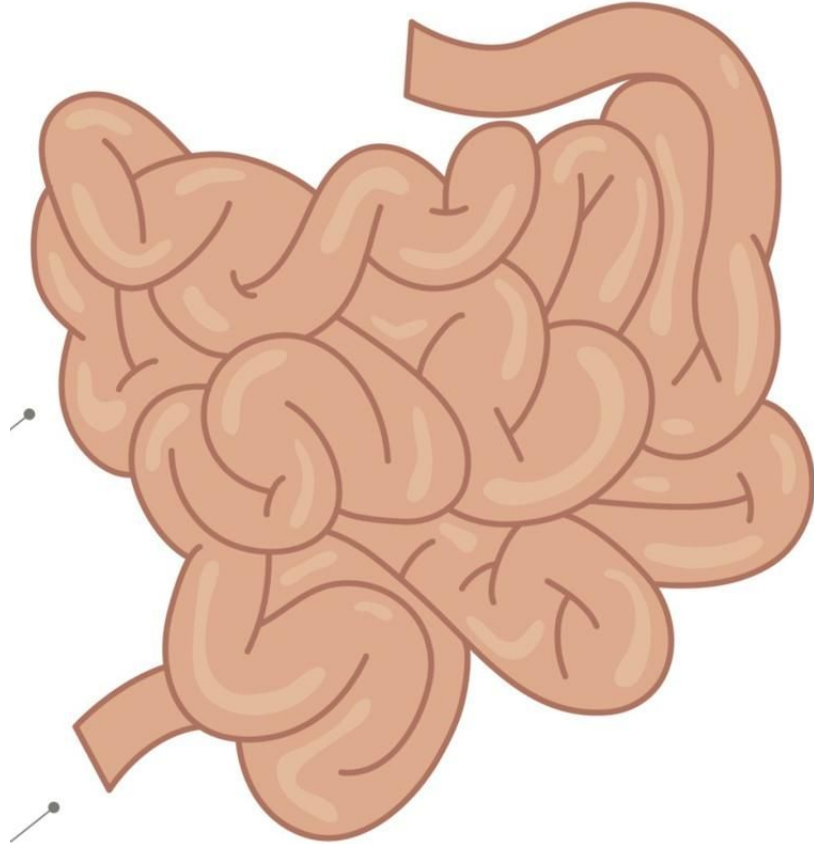
Step 2: Add saliva to your food!



Step 3: Add a bit of stomach acid!



Step 4: Absorb all those nutrients!



Vitamins!
Carbohydrates!
Protein!
Fats and oils!

Step 5: Be sure to absorb all that water!



Step 6: The final step in digestion!



Be sure to clean up!

Why is it important to chew your food??



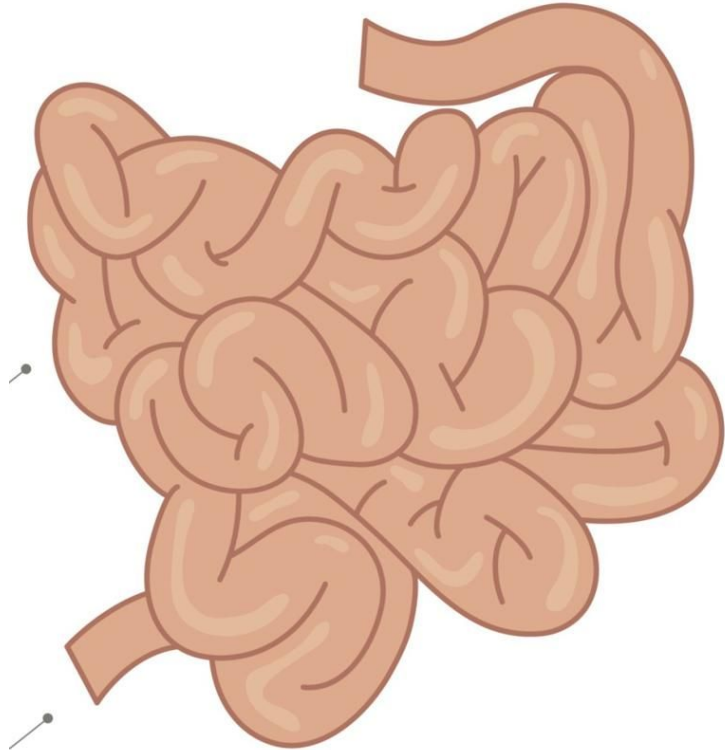
What happened when you added saliva to your food?



How did stomach acid help?



What happened when you transferred food to the small intestine?



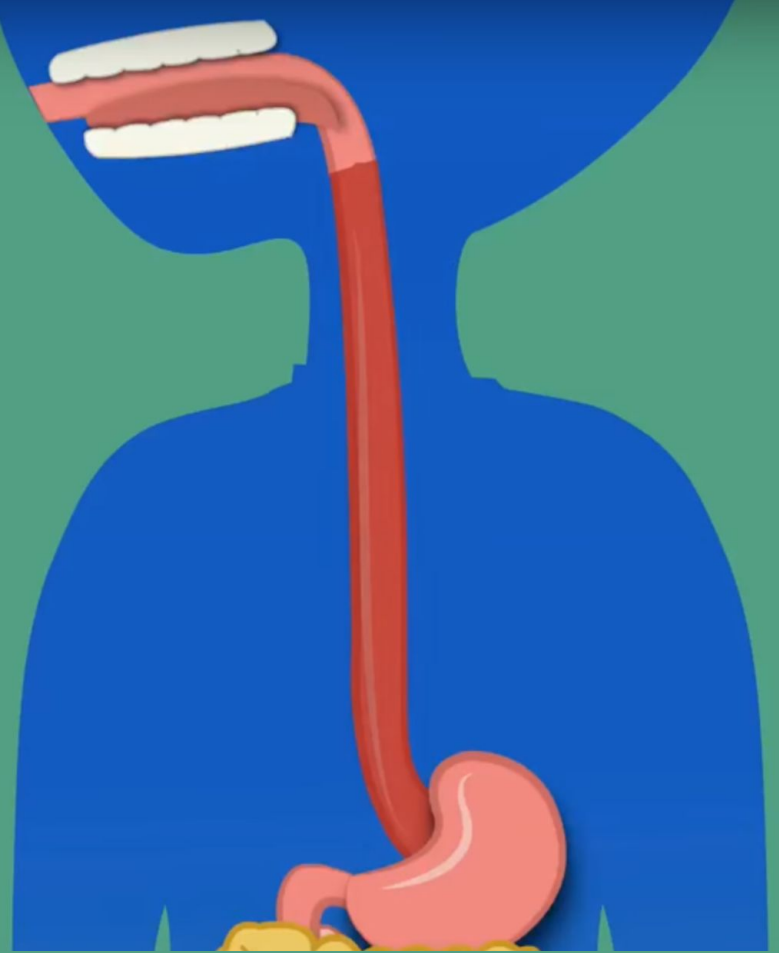
Vitamins!
Carbohydrates!
Protein!
Fats and oils!

What do the large intestines help do??



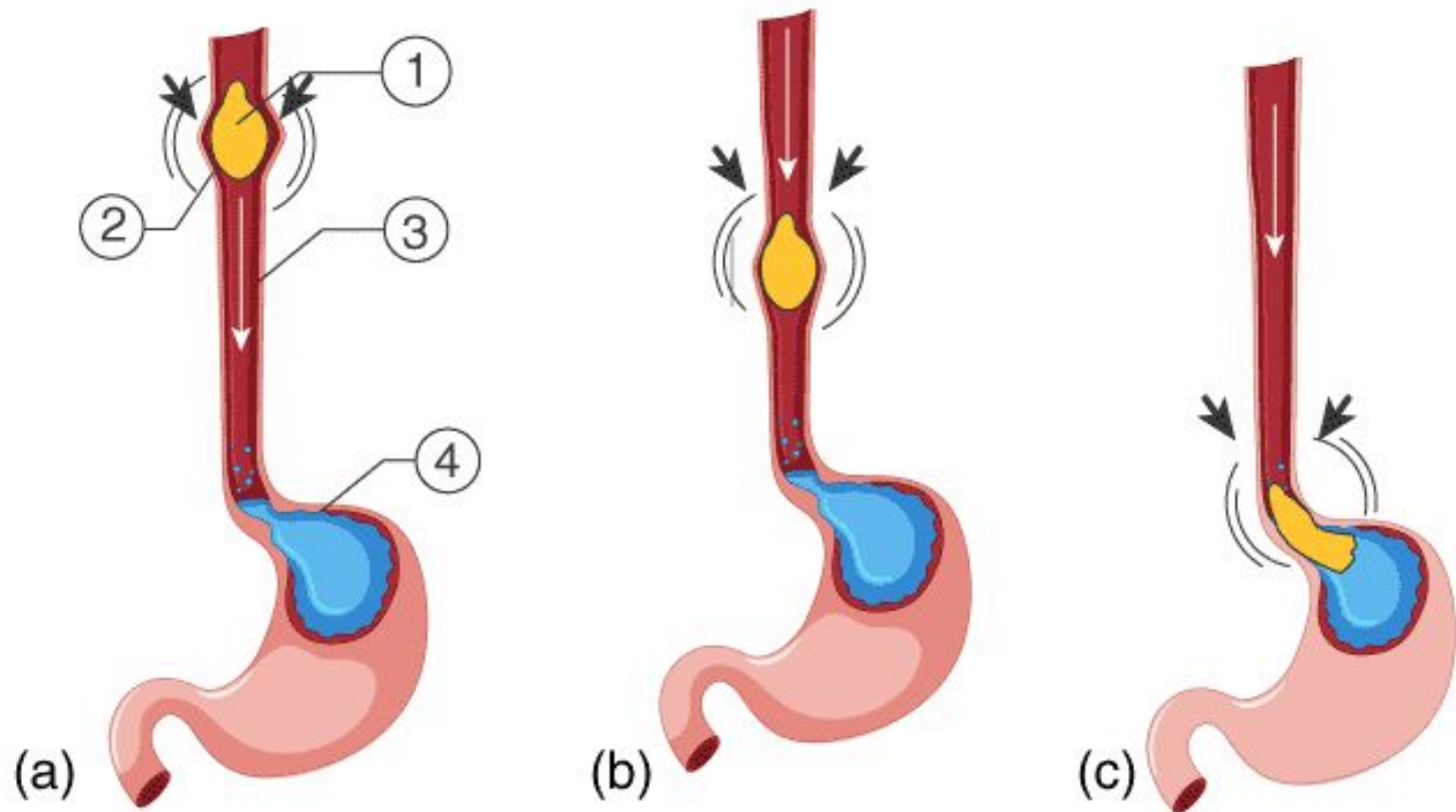
esophagus

These pieces, being easy to swallow and digest, travel down the oesophagus to the stomach.

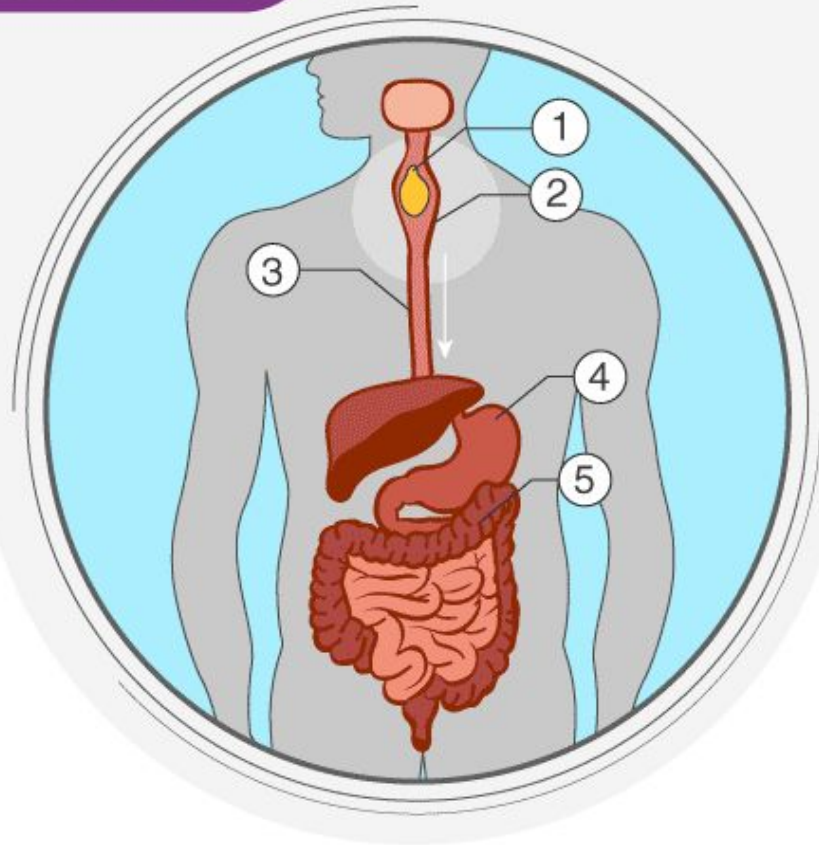


Activity! Modeling the esophagus:
How do you get the egg through the food
pipe?

ESOPHAGEAL PERISTALSIS



PERISTALSIS



- 1 Food | 2 Peristaltic wave | 3 Oesophagus | 4 Stomach | 5 Intestine

Why do we eat food??

Questions

1. Why do we chew our food?
2. Why is saliva important? What happens if you don't drink enough water?
3. What's in your stomach that helps with digestion?
4. What's the role of the small intestine?
5. What's the role of the large intestine?