Digestive System

What is the job of the digestive system?

_________________________________________________________________________

_________________________________________________________________________

_________________________________________________________________________

What does the word digestion mean?

_________________________________________________________________________

_________________________________________________________________________

_________________________________________________________________________

Fun fact: How long is the gastrointestinal tract?

_________________________________________________________________________

Draw a picture of your favorite food, and describe what happens when you think about it.
Digestive System

Label the parts.
large intestines  mouth  pancreas
small intestines  liver  gall bladder
  stomach  esophagus
What kind of breakdown is happening?
(Check box)

- Mechanical by what? __________________
- Chemical by what? __________________
- None

Amylase is an enzyme in saliva that is responsible for the __________ breakdown of food.

______________ are the first nutrients to be absorbed in the body since they are broken down so quickly in the mouth.

Fun Fact: Unlike in humans, the frog’s tongue attaches at the __________ of the mouth.
Esophagus

What kind of breakdown is happening?
(Check box)

☐ Mechanical by what? _________________________
☐ Chemical by what? _________________________
☐ None

How does peristalsis help move food from the mouth to the stomach?

Fun fact: You can swallow while upside down and in space because of__________________.
Stomach

What kind of breakdown is happening?

(Check box)

☐ Mechanical  by what? ________________
☐ Chemical   by what? ________________
☐ None

After your food is broken down in the stomach, it is called chyme.

Why does the stomach have rugae? ________________

________________________________
________________________________
________________________________

Draw the frog’s rugae

Fun fact: The stomach can stretch to the size of a ________________________.

Fun fact: How long does food stay in the stomach? ________________________.
Small Intestines

What kind of breakdown is happening? (Check box)

☐ Mechanical by what? ______________________

☐ Chemical by what? ______________________

☐ None

What is the function of small intestine? __________

__________________________________________

__________________________________________

Fun Fact: How long is the small intestine?

__________________________________________

Why do scientists think the microbiome is important? __________________________

__________________________________________

__________________________________________

__________________________________________
Accessory Organs

Bile Experiment: Draw what happens at each stage of the experiment.

<table>
<thead>
<tr>
<th>Fats &amp; Water</th>
<th>Bile Prediction</th>
<th>Bile Results</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Accessory Organs: Fill in the blank with each organ name.

<table>
<thead>
<tr>
<th>Organ</th>
<th>Job</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Stores bile and releases it into the small intestine</td>
</tr>
<tr>
<td></td>
<td>Makes bile that helps break down fats</td>
</tr>
<tr>
<td></td>
<td>Makes pancreatic enzymes that help break down proteins</td>
</tr>
</tbody>
</table>
Large Intestines

What kind of breakdown is happening?
(Check box)

☐ Mechanical by what? ______________________
☐ Chemical by what? ______________________
☐ None

All nutrients are absorbed in the small intestines.
What is absorbed in the large intestine? ________

Fun fact: How long does chyme stay in the large intestine? ______________________

Trace the path of food through the gastrointestinal tract.
Use this space to draw/write your observations from the dissection.

Did you notice any differences between the frog and human digestive system? Why do you think that is?

**Breakdown Review.** What kind of breakdown happens in each part of the digestive system?

<table>
<thead>
<tr>
<th>Part</th>
<th>Chemical breakdown</th>
<th>Mechanical breakdown</th>
<th>None</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mouth</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Esophagus</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Stomach</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Small Intestine</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Large Intestine</td>
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<td></td>
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</tbody>
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