

The Digestive System

Digestion story:
AN EPIC TALE OF A FOOD'S
DIGESTIVE JOURNEY



Digestion Story

Name: _____

An Epic Tale of a Food's Digestive Journey

You've just taken a bite of your favorite food. Where does it go? What does it see? How does it change? Your meal has a story to tell about its journey through the digestive tract and the interactions it has with the accessory organs of the digestive system. Your job is to express and illustrate this journey!



What You Do:

For this project you will create an educational story for children from the point of view of a piece of food moving through the digestive system. Your goal is to generate a **well thought**, nicely **illustrated** account of what food goes through inside your digestive organs. This is a chance for you to be as gross as you want while using proper language and pictures in order to show the disgusting but fascinating facts of how your food is broken down. *Be creative, it's worth 150 points!!*

Format (CHOOSE ONE) or ask your teacher for permission if you have another idea:

_____	_____	_____
_____	_____	_____
_____	_____	_____

Your project must be well-written, illustrated, and address the following ELEVEN elements using your own materials or the story template provided by your teacher:

1. Introduction - Summary

Include your NAME and CLASS PERIOD. Describe the project in a three sentences with ONE PICTURE of the whole digestive system

2. Where am I? - The Plate

Show your main character sitting on a plate as a happy piece of food (whatever you choose). Who is going to eat your piece of food – a person? An animal? Introduce the consumer here!

3. Where am I? - The Mouth: Teeth, Tongue, and Salivary Glands

Show the food as it moves into the mouth and gets changed into a ball of mush called a bolus. Describe how the accessory organs of the mouth: tongue, teeth, and saliva aid in both MECHANICAL and CHEMICAL digestion.

4. Where am I? - The Esophagus

Here you should show the food moving out of the mouth and down the esophagus. Explain the role of PERISTALSIS during your food's time in the esophagus as it travels to the stomach.

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5. Where am I? - The Stomach

Your food has dropped into a giant sac filled with different GASTRIC JUICES; explain what these juices are and what they help to break down. Show your food swimming in the pool of juices along with any previously eaten meals. Discuss how both MECHANICAL and CHEMICAL digestion change you into chyme before you move on to the small intestine.

6. Where am I? – The Duodenum of the Small Intestine being squirted by pancreatic juices

You are in the duodenum, the beginning of the small intestine. Show your food being showered by pancreatic juices while inside the small intestine. Remember, food does not pass through the pancreas, but you should include a picture of this organ and describe ALL of its functions including how it aids in chemical digestion within the small intestine.

7. Where am I? - The Duodenum of the Small Intestine being squirted by bile

While still in the duodenum, show the food being squirted by bile within the small intestine. Remember, food does not pass through the liver or gallbladder, but you should include a picture of these organs and describe ALL of their functions including how they aid in chemical digestion within the small intestine.

8. Where am I? - The Small Intestine

Here, your food has finished its short travel through the duodenum and has moved on to the rest of the small intestine - the jejunum, and the ileum. Describe what happens as food moves through this long muscular tube lined with VILLI (finger-like projections). Show & describe what the villi do.

9. Where am I? - The Large Intestine

Here, your food is packed into a large tube with other bits of food as it slowly turns into waste. Explain what happens to your food in the large intestine and how it becomes a waste product. Discuss how long food may spend in the large intestine before it moves on to the rectum and anus.

10. Where am I? - The Rectum and Anus

Describe and illustrate the job of the Rectum and Anus. What has your food now become?

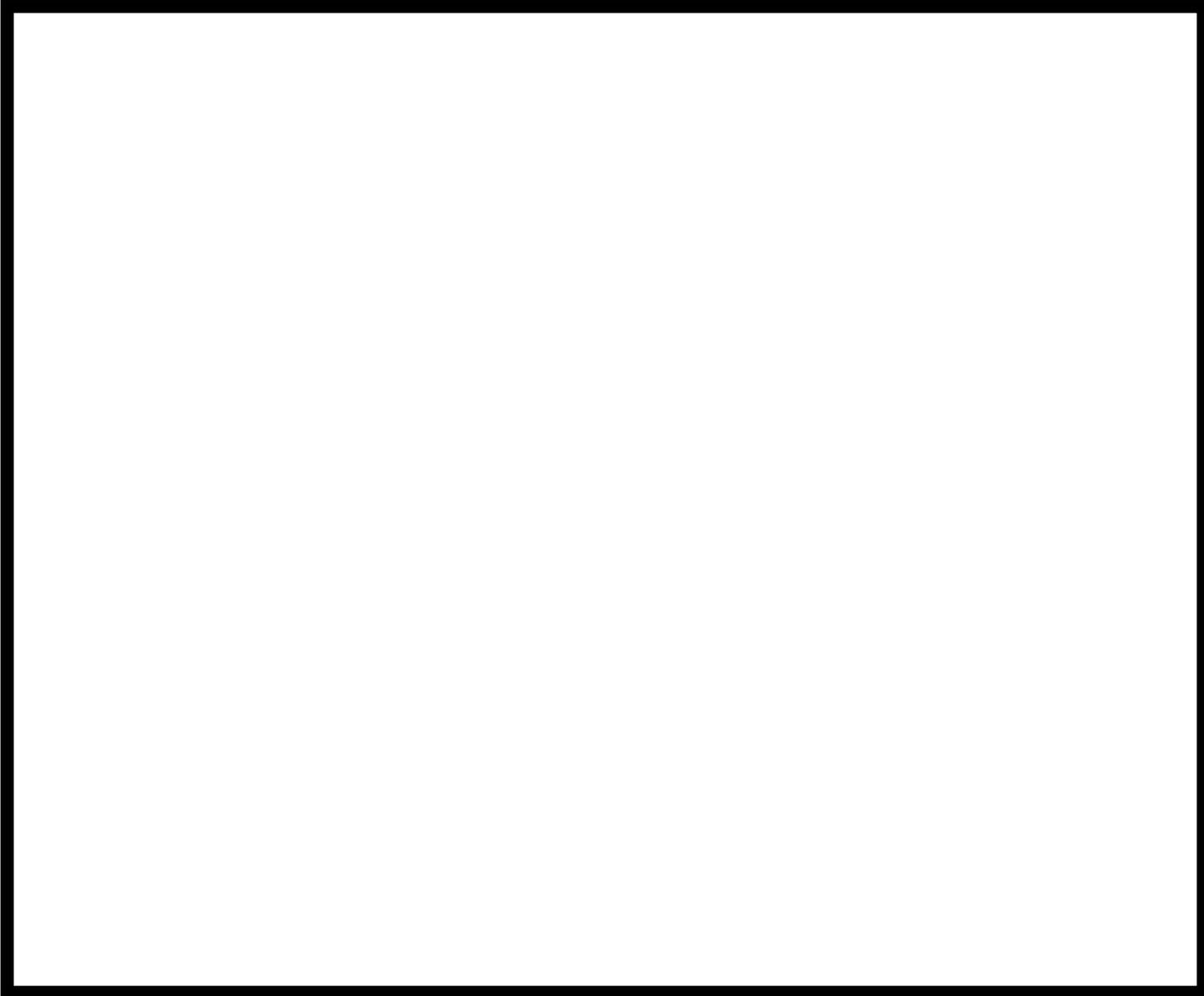
11. Where am I? - The Toilet

Finally, you made it out of the body! What happens next?? The big FLUSH!

Digestion Story Rubric

Category	0	3	5	7	10
Title Page	No cover page	Cover page present showing less than 25% of the elements required	Cover page present showing 25-50% of the elements required.	Cover page present showing 50-75% of the elements required.	Page depicts all elements required.
The Plate	No page depicting plate.	Page present showing less than 25% of the elements required	Page present showing 25-50% of the elements required.	Page present showing 50-75% of the elements required.	Page depicts all elements required.
The Mouth: Teeth, Tongue, and Salivary Glands	No page depicting the mouth.	Page present showing less than 25% of the elements required.	Page present showing 25-50% of the elements required.	Page present showing 50-75% of the elements required.	Page depicts all elements required.
The Esophagus	No page depicting the esophagus.	Page present showing less than 25% of the elements required.	Page present showing 25-50% of the elements required.	Page present showing 50-75% of the elements required.	Page depicts all elements required.
The Stomach	No page depicting the stomach.	Page present showing less than 25% of the elements required.	Page present showing 25-50% of the elements required.	Page present showing 50-75% of the elements required.	Page depicts all elements required
The Small Intestine	No page depicting the small intestine.	Page present showing less than 25% of the elements required.	Page present showing 25-50% of the elements required.	Page present showing 50-75% of the elements required.	Page depicts all elements required.
The Small Intestine being squirted by Pancreatic Juices	No page depicting the small intestine being squirted by the pancreatic juices.	Page present showing less than 25% of the elements required.	Page present showing 25-50% of the elements required.	Page present showing 50-75% of the elements required.	Page depicts all elements required.
The Small Intestine being squirted by Bile	No page depicting the small intestine being squirted by bile.	Page present showing less than 25% of the elements required.	Page present showing 25-50% of the elements required.	Page present showing 50-75% of the elements required.	Page depicts all elements required.
The Large Intestine	No page depicting the large intestine.	Page present showing less than 25% of the elements required.	Page present showing 25-50% of the elements required.	Page present showing 50-75% of the elements required.	Page depicts all elements required.
The Rectum and Anus	No page depicting the rectum and anus.	Page present showing less than 25% of the elements required.	Page present showing 25-50% of the elements required.	Page present showing 50-75% of the elements required.	Page depicts all elements required.
The Toilet.	No page depicting the toilet.	Page present showing less than 25% of the elements required.	Page present showing 25-50% of the elements required.	Page present showing 50-75% of the elements required.	Page depicts all elements required.
Organization, Neatness and Creativity	Project disorganized, poorly constructed and lacks creativity. (0/40)	Project is not very organized, is not very well constructed and shows little creative effort. (20/40)	Project is somewhat organized, is somewhat well constructed and shows some creative effort. (20/40)	Project is mostly organized, is mostly well constructed and shows creative effort. (20/40)	Project is well organized, constructed and shows great creative effort. (40/40)

WHERE AM I? _____



On this leg of the journey... _____

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Teacher Key

Lesson Format:

Have students copy down the various ways in which you will accept this project under the "Format" section of their directions. Ideas include but are not limited to:

Children's Book	Comic Strip
PowerPoint Slide Show	Animation (movie)
Travel Brochure	Magazine Article
Illustrated Rap/Song/Poem	Newspaper Article
Diary or Journal	Film (movie)
Prezi	Play or Puppet Show

How to Differentiate the Lesson:

To differentiate the lesson and assist students who needs extra support, provide them with the "Where Am I?" Story Template. Each student would receive 11 of these pages to complete their story. Simplify the lesson further by eliminating elements #6 and #7 and have students complete only one template page for the small intestine.

To make the project more rigorous, ask students to also include the length of each digestive tract organ and the amount of time food spends in each organ. They can write it like a journal or diary entry with a date and time. They can also include the different kinds of enzymes used in digestion and discuss what types of nutrients they help to break down.

How to Use the Rubric:

Print off a copy of the rubric for all students and they can staple it on the front or back of their product, making it a breeze to grade. If you would like to conserve copy materials, make a class set of the rubric or display the rubric somewhere in your room or on your projector while they work on their stories in class.

Please note that the 11 parts of the project are worth 10 points each. Organization, neatness, and creativity are worth 40 points making the project worth a total of 150 points.

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Student Examples



Digestion Story

Student Example using Template

An Epic Tale of a Food's Digestive Journey

Where am I?: The Mouth

Salivary Glands
Salivary Amylase
Tongue
Esophagus

NO? Oh well you're very tiny!
I No dont EAT ME. IM NO GOOD!

at It's Like Here: as soon as the chewing the tongue pushes to esophagus. Then the esophagus push is called peristalsis. now food become...

Where am I?: The Stomach

Gastric Juice
Pepsin
Hydrochloric Acid

Describe What It's Like Here: It is very nice mix... the stomach... the food... the stomach... the food... the stomach... the food...

Where am I?: The Stomach

hello where am I? well when do we get out of here? because of here... the stomach... the food... the stomach... the food...

ACID

the stomach is very... the food is... the stomach... the food...

It's Like Here: the chyl... into the small intestine... of muscle that is used... valve holds the food in... food is mixed with the digest...

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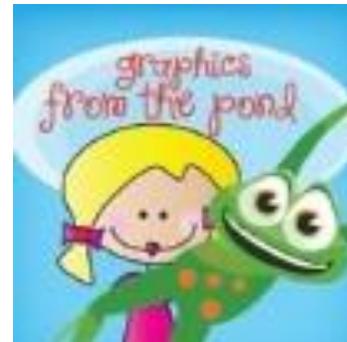
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