

ArtStream

Written Instructional Guide



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Sculpting the Digestive System with Homemade Modeling Dough
“For Grades 6-8 Students”

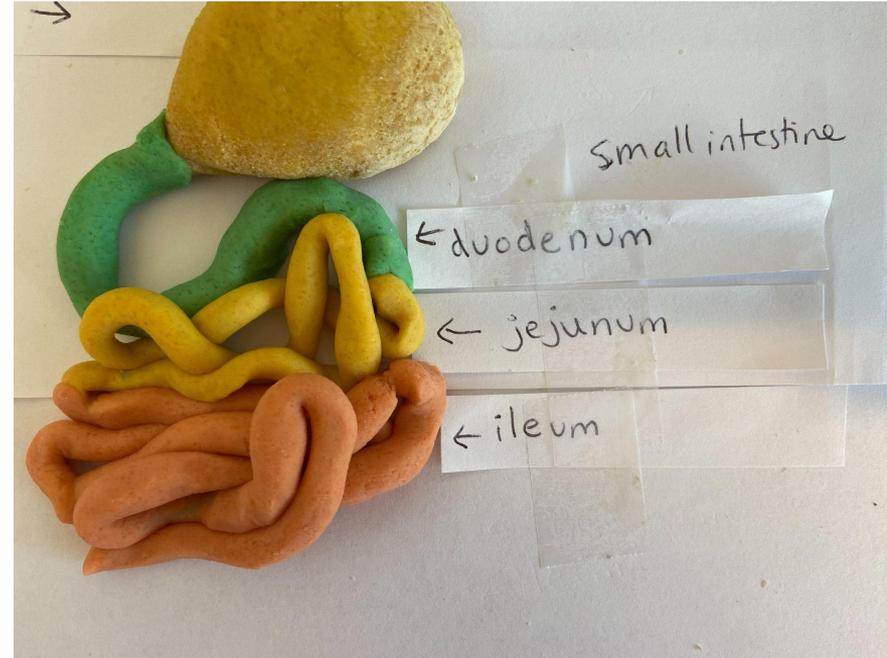
With Teaching Artist Nicole Hummel

Lesson 3: “Sculpting the Digestive System Part II: Small Intestine”

Materials

Materials:

- o Required
 - Clean surface
 - Modeling dough from Lesson 1 (or store bought dough in different colors)
 - A hard moveable surface to keep the sculpture on (a piece of cardboard, a cutting board or a plate)
 - Sculpture from Last Lesson
- o Recommended
 - popsicle stick
 - toothpick



Introduction

- Welcome
- I'm Nicole Marie Hummel, I'm a ceramic artist based in Eugene
- We are continuing our exploration of the digestive system. As we discussed last time, there are lots of steps to the process of breaking down our food into substances that the body can use. Our focus today is on the small intestine.
- First, we are going to take a moment to become aware of our surroundings and ourselves so that we can be fully engaged in this process of making clay!

Mindfulness Exercise

- Take a deep breath, rub your arms with your hands
- Look around you and find something that you like to look at, take a breath
- Close your eyes and listen, find a sound that you can hear, take a breath
- This is a helpful way to sink into your body and be more aware of how you are feeling! Then we can be more in the moment and connected to what we are creating.

Step 1: Organize Materials

- Begin by organizing our materials
- Sort out the colors of modeling dough, set tools together
- Sculpture from previous lesson

Step 2: Set Up Work Space

- **Instructions**

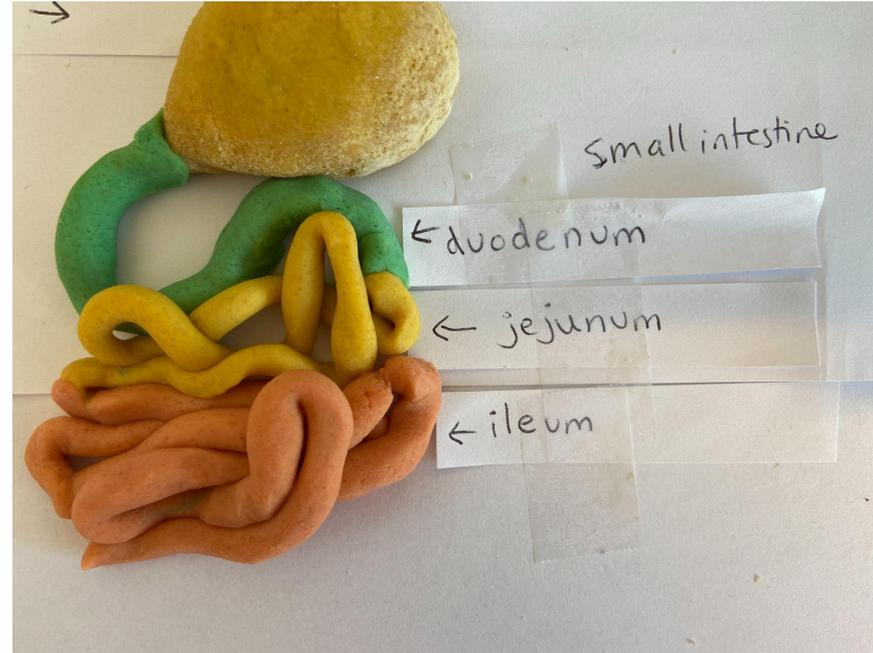
- Once ingredients have been organized , move them to the edge of the “work space”. The work space can be a blank piece of paper, or a clean, flat surface
- Empty the center of workspace

Step 3: Small Intestine

- The small intestine is the longest part of our digestive system and it is all clustered inside of our abdominal cavity! If you could lay the intestine out in one long line, it could measure up to 22 feet, or up to 3 times the length of your body!
- we are going to make a long coil to represent this.

INSTRUCTIONS

- create 3 coils of different colors to represent Duodenum, Jejunum, and Ileum
- Connect them and lay it under the rest of sculpture, connected to stomach.

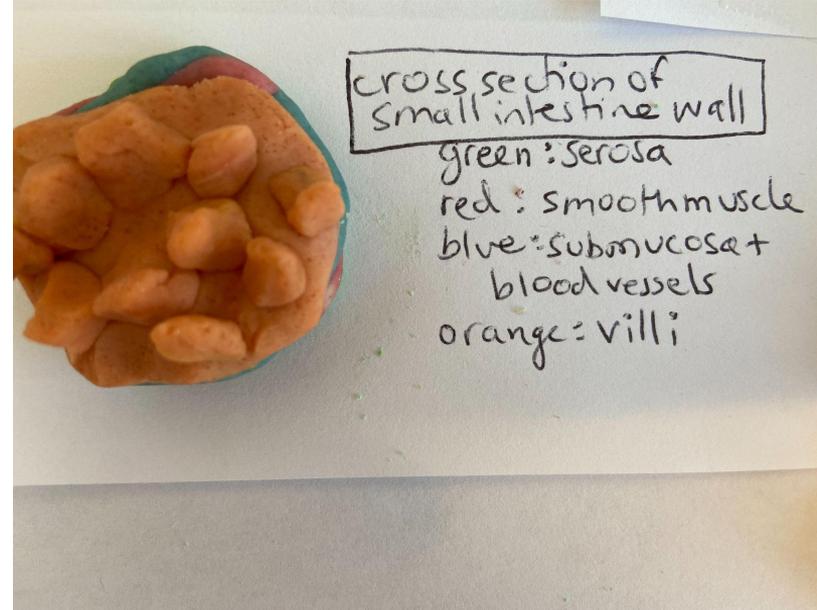


Step 4: Sculpting a Cross Section of the Small Intestine

- The small intestine is where our body begins to reabsorb a lot of the nutrients of our food.
- It has many layers, including a smooth muscle layer, the blood vessel layer, and the villi which increase the surface area of the inside of the intestine
- We are going to model a tiny square that represents the layers of the small intestine

INSTRUCTIONS

- shape layers
- stack
- label these layers and also the intestine attached to sculpture



Closing Reflection

- Take a moment to sit back, close your eyes, and remember the process of doing this. What was your favorite part? Take a deep breath together.
- Thank students for tuning in and participating
- Directive: Check out the pancreas, bile, and pancreatic juice to learn more about what these parts of the digestive system do!

We will have 1 more lesson to explore so tune back in!

Thank you!

- Keep creating!