

Inquiry Question

Food travelling through your body covers a distance of about 5 times your height. How can all these pathways fit into your body?

Name: _____ Date: _____



After entering your body, food embarks on a long journey which takes 1-3 days.

This journey not only takes a long time, but also carries the food along a large distance. The distance the food travels is about five times your height?

How can all these pathways fit into your body?

In this project, you'll work on modelling your entire digestive system to better appreciate this journey.

General Instructions

The end goal is to have a model that you've documented and can fully explain. Thus, make sure you have a plan prior to building. Will you be taking photos or video? Will you be including labels in the pictures or adding that later? Check with your teacher to confirm your plan.

Materials you'll need:

- Large sheet of paper - large enough to trace your body
- Different colors of yarn or any other material of your choosing that can be measured out to length and folded
- Glue, tape...
- Computer with Internet access

Hints and Ideas:

- Have someone help trace your body onto a large piece of paper
- Use different colors of yarn to represent each organ of the digestive system
- Where appropriate be sure to measure each part of the digestive system to the proper length
- Other materials that might be used: straws, rope, tubing etc
- Place the organs into the proper locations in your traced diagram
- Once you have all the organs represented label the organs and identify their function
- Terminology to be included along with the names of all the organs involved in the digestive process: peristalsis, digestive enzymes, acidic chyme, bile

Project submission:

You can either submit photos/video of your project (along with an explanation and/or steps of construction) or if you can drop-in to the school, you can present it to your teacher in-person.

How to do it:

Step 1 Take your large piece of paper, and lay on it so someone can trace you out, as seen in figure 1.2 below.



Figure 1.2

Step 2 You can either trace or draw the different organs in the correct order.

Step 3 Take the materials you have chosen and measure to make sure the organs are the correct length. As seen below in figure 1.3.

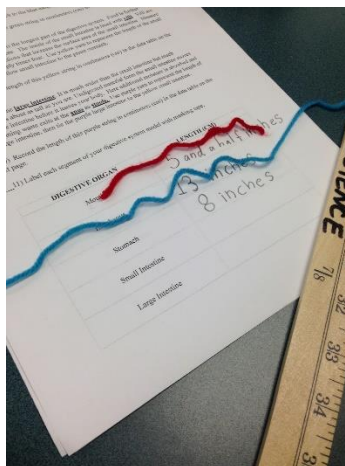


Figure 1.3

Step 4 Fill in the traced organs with the organs that you have made with the different materials.

Step 5 Label all the organs and identify each one's purpose.