

Digestive System- Project

The digestive system is responsible for bringing in food and breaking it down physically and chemically into smaller macromolecules so that these macromolecules can be absorbed by the body and used as energy or reassembled into other substances that the body needs. To accomplish these functions, the digestive system is composed of two divisions. The first division is the alimentary canal or the gastrointestinal tract or the digestive tract. The alimentary canal is the passageway for food. The second division are the accessory organs. The accessory organs produce and secrete digestive enzymes and substances that chemically breakdown food as it passes through the alimentary canal. Whatever the body does not absorb is eliminated as waste.

Task

You and your group will choose a food that contains the macromolecules: protein, carbohydrates, and lipids. Next, each member of your group will have to complete one of the following sections for this project:

1. **Alimentary Canal**
This person will be responsible for labeling and coloring the all of the organs of the alimentary canal.
2. **Accessory Organs**
This person will be responsible for labeling and coloring all accessory organs.
3. **Digestive System Process**
This person will be responsible for identifying and explaining the all of the different digestive processes that the food will encounter during its journey through the digestive system.
4. **Digestive Enzymes**
This person will be responsible for identifying and explaining the all of the different digestive enzymes that will act upon the food during its journey through the digestive system.

Once each member has been assigned a section, you will cut out the organs of the digestive system, put them together correctly, and glue them down on to a piece of butcher paper. From here, you will then be able to work on the project by section. As you fill in each section, you will discuss what is happening to your food as it journeys through the digestive system.

When all sections have been completed, I want you to circle the area of the digestive system that is primarily affected by the digestive system disorder/disease from your Patient Case Scenario and name the disorder/disease.

In the end (no pun intended), you should have created a digestive system poster that documents your food's journey through the digestive system.