

Lab 11 – 12/3/13 and 12/5/13
Learning Objectives

By the end of this lab you should understand:

- The path of food through the digestive tract
- The major digestive actions of the different organs of the digestive system
- The major chemicals involved in digestion and their functions

Key facts:

- Nutrients must be chemically broken down into individual molecules before they can be absorbed by the small intestine
- Lipids must be emulsified prior to digestion

Key skills:

- Identify digestive organs and their functions by sight
- Identify whether digestion is taking place or not in a chemical sample

Lab Procedure:

- Exercise 17: The Digestive System and Nutrition
 - Activity 1: Digestive tissue
 - Activity 2: Digestive system organs
 - Activity 4: Enzyme functions (highly modified)
- Individual credit: Path of nutrients and waste through the body
- Group credit: Analysis of chemical digestion lab

Sample lab exam questions:

- True/False: The liver is part of the tube through your body
- Identify which of these digests protein
- Which of these organs produces bile?
- Identify whether the starch in this sample has been digested
- What are two digestive chemicals needed to digest this food?