

Digestive System Review Worksheet

Objectives:

SC.912.L.14.45 Describe the histology of alimentary canal and its associated accessory organs.

SC.912.L.14.46 Describe the physiology of the digestive system, including mechanical digestion, chemical digestion, absorption and the neural and hormonal mechanisms of control.

SC.912.L.18.2 Describe the important structural characteristics of monosaccharides, disaccharides, and polysaccharides and explain the functions of carbohydrates in living things.

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SC.912.L.18.3 Describe the structures of fatty acids, triglycerides, phospholipids, and steroids. Explain the functions of lipids in living organisms. Identify some reactions that fatty acids undergo. Relate the structure and function of cell membranes.

SC.912.L.18.4 Describe the structures of proteins and amino acids. Explain the functions of proteins in living organisms. Identify some reactions that amino acids undergo. Relate the structure and function of enzymes.

SC.912.L.18.11 Explain the role of enzymes as catalysts that lower the activation energy of biochemical reactions. Identify factors, such as pH and temperature and their effect on enzyme activity.

SC.912.L.14.2 Relate structure to function for the components of plant and animal cells. Explain the role of cell membranes as a highly selective barrier (passive and active transport).

1. What are the two divisions of the digestive system? What organs are found in each section?

2. The act of breaking food down into smaller pieces is considered to be _____ digestion.

3. _____ or hydrolysis reactions that break large macromolecules down into simpler monomers is called _____ digestion.

4. What are the primary functions of the muscularis mucosa?

5. What type of epithelium is found in the small intestine? How does it aid in digestion?