LS 1-7 Digestion And Cellular Respiration Quiz	Name
Study Guide	Date _

Name:_____ Date _____ Hour ____

Important Vocabulary:

carbon oxygen glucose amino acids proteins

starches respiratory system digestive system circulatory system enzymes cellular respiration mitochondria energy metabolism claims

Concepts:

- All living things contain <u>carbon</u> which is the key element found in molecules of earth organisms. Hydrogen, oxygen, nitrogen and phosphorus are also found in living organisms.
- Major food molecules, such as carbohydrates, proteins and fats, are broken down by the digestive system into smaller molecules for easier absorption into the circulatory system.
- The role of the digestive system is to break down large molecules into smaller molecules in order for these particles to fit into a cell. Chemicals called <u>enzymes</u> help break down these molecules. This process starts in the mouth and continues throughout the digestive system, which includes the esophagus, stomach, small and large intestines.
- Large protein molecules are broken down into amino acids in the stomach and are used in the cells to make new proteins for repair and growth.
- Large starch molecules are broken down into glucose which is used in cellular respiration to provide energy for the cells.
- All atoms and molecules needed by a person are obtained from outside the body through the digestive and respiratory systems. Atoms in these molecules may be rearranged by digestion or cell processes to make new molecules for growth, repair and energy that powers all of the body's life processes.
- During cellular respiration, oxygen and glucose molecules in the mitochondria go through a chemical reaction which produces energy for the body. Carbon dioxide and water molecules are produced as byproducts of this reaction.
- Scientific claims must be supported by data. Evidence in support of a claim must be relevant and explained through reasoning.

Review:

1.	Key elements found in all living organisms are,
	,, and
	but, is the key element that the other atoms bond to in a
	living organism.
2.	Digestion of food produces molecules like proteins and starches which are
	broken down intoand
3.	Digestive are used to help break down large food molecules
	in order for for them to fit into living cells.
4.	The digestive system starts with the mouth, then continues down to the
	,,,,,
	and finally to the
5.	In the process of cellular, glucose and
	combine in the to release
	for the cell. This reaction also gives off
	and as byproducts.
6.	All molecules used by the body for energy, or repair are
	from the body.
7.	Scientific are supported by data, evidence and reasoning.