Name		Period
Ms. Foglia	Date	

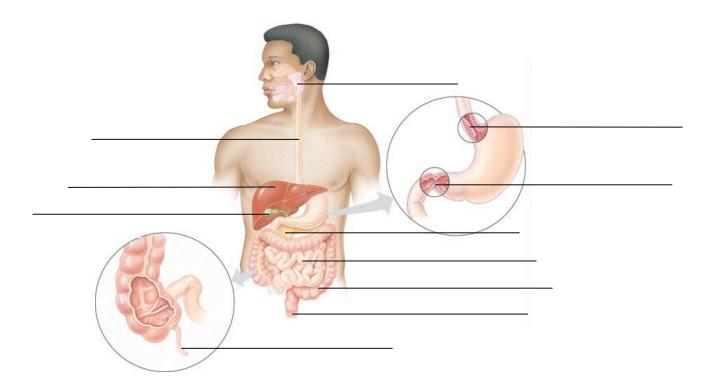
AP: CHAPTER 41: ANIMAL NUTRITION

1.	How does glucose metabolism demonstrate a homeostatic mechanism?
2.	What role do the various essential nutrients have in animal metabolism?
	a. Protein
	b. Carbohydrates
	c. Lipids
	d. Vitamins
	e. Minerals
	f. Water
3.	Why are there only 8 essential amino acids?
4.	Identify a few deficiency diseases.

Na	me	Ms. Fogli
5.	Identify some of the modes of heterotrophic nutrition.	
	a	
	b	
	C	
6.	What are the four main stages of food processing in heterotrophic nutrition?	
7.	What is the advantage of extracellular digestion over intracellular digestion?	
8.	What is the adaptive value of the alimentary canal?	
9.	What two major changes occur to food in the mouth?	
	a	
	b	
10.	List a few significant aspects of the stomach's physiology.	

- 11. How does the stomach prevent digesting itself?
- 12. Describe the major secretions that enter the duodenum.
- 13. How does the pancreas prevent digesting itself with the peptidases it produces?

14. Label the diagram of the human digestive system.



Name	Ms. Foglia
15. Where is each of the following chemically digested?	
a. Carbohydrates	
b. Protein	
c. Nucleic Acid	
d. Fat	
16. List three features of the small intestine that improve its function.	
a	
b	
C	
17. Describe the role of the following hormones.	
a. Gastrin	

- c. Cholecystokinin _____
- 18. Describe two important functions of the large intestine.

a.	

19. Identify a few ways a herbivore's alimentary canal differs from a carnivore's.