Name:	Date:	Period:
Enzyme Introduction		Wk #:

Direction: Use the given pages to answer each question.

Questions

Description, definition, or example

What are enzymes? (pg. 52)

What is the function of an enzyme in living cells? (pg. 52)

What is the formula for the chemical reaction between carbon dioxide and water? (pg. 52)

Why are enzymes necessary in this chemical reaction? (pg. 52)

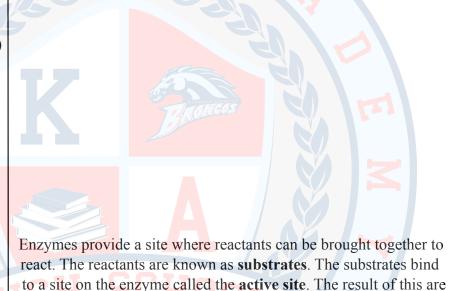
Based on your knowledge of pH, what would occur if carbonic acid is not quickly removed from the blood stream?

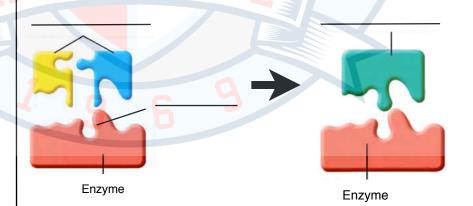
The Enzyme-Substrate Complex (pg. 52)

Label the diagram with the bolded words.

What are 4 essential roles of enzymes? (pg. 53)

What are 2 variables that affect the activity of enzymes? (pg 53)





products that are released.

Name:	Date:	Period:	
While the concept of enzymes might be work in your body. Enzymes play a cont be able to digest our food. Below	be new, you have actually extruction role in our digestive sy	sperienced how enzymes (or lack of) ystems and without them, we would	
Directions: Read and annotate each s	ection. Then answer the que	estions.	
significant portion of our diets. Starcl etc). However our bodies cannot use up the starch – glucose (simple sugar) the small intestine break down the longer	hy foods include potatoes, ric starch for energy and instead . Amylase, the enzyme foun ag chains of glucose that mak	d must use the components that make and in saliva in the mouth and also in	
1. Draw a diagram illustrating what amylase does to starch. Your diagram should include the labels: starch, amylase, enzyme, substrate, product, glucose.			
cream. But for 30 to 50 million Amerand cramping, because they share the Lactose is the simple sugar in responsible for breaking down lactose made from it. Some people, however,	ricans, indulging in these dair same condition – lactose into milk, made of galactose and into the two simple sugars a don't make enough lactase to	olerance. glucose. The enzyme called lactase is after you've consumed milk or a food to tackle the lactose they consume.	
But lactose intolerance is not a the intestinal tract to begin declining a among individuals, accounting for the how low your levels of lactase are. M until later in life.	after the age of three. How see diversity of symptoms. The	e severity of symptoms depends on	
2. Draw a diagram illustrating what I the labels: lactose, glucose, enzym		system. Your diagram should include t, galactase.	
4			
3. Why do individuals without lactas	e experience digestive proble	ems like nausea, cramps, or gas?	