		Date Group #			
	Enzyme	e Kinesthetic Lab Der	nonstration Acti	vity	
Part I					
Directions: Fill in	n the blanks using w	ords from the word ba	nk below.		
active site	key	protein		speed	
bonds	lock	reactants (subs	strates)	substrate	
catalysts	products	size/shape			
Enzymes, also call	led biological (1)		, are made out of (2) The		
purpose of an enzy	me is to (3)	up a chem	ical reaction. Eac	ch enzyme has a(n)	
(4)	where	a (5)	molecule bind	ls. The (6)	of
the substrate must	match that of the en	zyme's active site. Th	ne enzyme-substra	ate model is similar	to a lock and
key mechanism. T	The substrate acts as	the (7)	and the enzy	me acts as the	
		e-substrate complex, cl			are.
		are formed.			
					n an enzyme
and its substrate(s)) are (11)	, which a	are released by the	e enzyme.	
Part II					
Directions: Identi	ify the following sul	ostances as either an er	nzyme, substrate,	or product.	
Lactase	+ La	actose →	Glucose	+ Galactose	;
(12)	(13)	(14	.)	(15)	
(16) Draw, label, c	color, and explain ar	enzyme/substrate/pro	duct(s) picture she	owing this chemical	reaction.

Name____

Hour_____

Instructor Signature/Initials:

Part III