Period

Enzymes (Generally Speaking)

trackstar.4teachers.org Trackstar #: 370014

Answer the following questions using the website found in the trackstar listed above.

Website #1:

Click on "Enzymes: The Basics"		
1. Enzymes are	that serve as	They
speed up/slow down	, but remain	
Click "Next."		
2. The typical enzyme.	and a regulatory region ca	an be found on a
3. What is the purpose of the ac	tive site?	
Click "Next."		
4. Define "substrate."		
5. Each enzyme acts on a <i>Click "Wext."</i>	substrate.	
	fit model describes the interaction betv	veen the enzyme and
7. The substrate induces a more	fit of the a	ictive site around it.
Click "Next."		
8. Describe what happens when	lactose binds with the enzyme lactase.	

Website #2:

9. Catalysts are substances that ______ chemical reactions.

Name		
catalysts are called	Period	
	·	
10. Reactions with enzymes are up to	times faster	
11. An co	mplex forms when the	
enzyme's active site binds with the substrate like a	_ fitting in a	
12. Because the enzyme does not form chemical bonds with the	substrate, it remains	
As a result, the enzyme molecule of	can be	
Website #3:		
13. All chemical reactions require break chemical bonds and begin the reaction.	to	
14. Enzymes the barriers that	normally prevent chemical	
reactions from occurring by energy.	the required activation	
15. Enzyme names end with the suffix, unless they were named to adoption of the – <i>ase</i> naming system.		
.6. For example, is the enzyme that breaks down the substrate		

Website #4:

17. List the six properties of enzymes. You can paraphrase them if you want.

• Enzymes

- They
- They
- Each
- They
- They

Ν	ame
	Period
Website #5:	
18. One of the earliest written references to enzyme	es is found in Greek
epic poems dating from about, wh	nere mention is made of the use of
enzymes in the production of	'
19. The Japanese have also been using	

On the left hand side, in the menu, list three different ways enzymes are used today.

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_____•

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Website #6:

Watch the animation and draw the example of the enzyme and substrates, labeling them both.