Name		Period
Ms Foglia	Date	

AP: CHAPTER 6: METABOLISM & ENZYMES

1.	De	fine the following terms:
	a.	Catabolic pathway
	b.	Anabolic pathway
	C.	Kinetic energy
		Potential energy
2.		e First Law of Thermodynamics is the principle of
3.	The	e Second Law of Thermodynamics involves changes in
4.	Wh	at is meant by a change in free energy?
5.	Co	mpare reactions that are
	a.	Exergonic
	b.	Endergonic

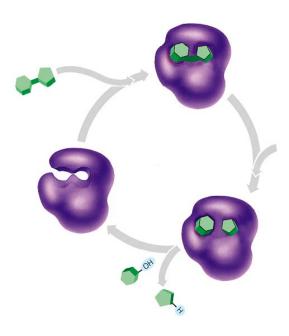
7. How does ATP "couple reactions"? ______

8. Sketch the profile of an exergonic reaction.

- 9. How do enzymes affect the energy profile?
- 10. Define activation energy. _____
- 11. Why are enzymes said to be specific? _____
- 12. List factors that influence the rate of enzyme reactions.

Ms Foglia

13. Label the diagram of the catalytic enzyme cycle.



14. How do competitive and noncompetitive inhibitors differ in their enzyme interactions?

15. What happens during allosteric regulation? _____

16. Describe feedback inhibition.

17. Define enzyme cooperativity.
