

**Bozeman Biology**

**Enzymes video**

<http://bit.ly/VjBcBm>

1. What are enzymes? What kind of molecule is an enzyme?

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2. What reaction does catalase catalyze? Write out the balanced chemical equation.

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3. What is the active site and what is its function?

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4. What is a substrate?

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5. What kinds of regulation exist for enzymes?

a. \_\_\_\_\_

b. \_\_\_\_\_

6. What are the two types of inhibition? and define them

a. \_\_\_\_\_

b. \_\_\_\_\_

7. How do you measure rate of reaction?

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8. What is the interaction between the active site and the substrate?

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9. What is the advantage to using an enzyme?

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10. What are two ways to activate enzymes?

a. \_\_\_\_\_

b. \_\_\_\_\_

11. What are two types of activators?

a. \_\_\_\_\_

b. \_\_\_\_\_

12. Define cofactor and give an example

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13. Define coenzyme and give an example

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14. Describe competitive inhibition.

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15. Describe non competitive inhibition What's another name for this?

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16. What is the allosteric site?

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17. What are two possible ways that allosteric inhibitors affect the action of the enzyme.

a. \_\_\_\_\_

b. \_\_\_\_\_

18. How are two ways can we measure reaction rate?

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19. What is the effect of temperature on enzyme action?

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20. Why does rate of reaction fall with higher temperatures?

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