

Biology for the AP® Course: Active Reading Guide
Unit 3 Cellular Energetics
Module 14 Enzymes

14.1 Enzymes increase the rates of chemical reactions

1. Describe why a spontaneous reaction releases free energy.
The products have less free energy than the reactants.
2. Describe what happens in a chemical reaction when the concentration of products increases.
The chemical reaction changes in direction and doesn't favor forward.
3. Define **catalyst**.
Substances that increase the rate of chemical reactions.
4. Identify three unique properties of catalysts.
 - a. Increase the rate of chemical reactions
 - b. Increase the rate of the forward reaction and reverse reaction
 - c. Specific, participating in some reactions
5. Define **enzymes**.
Proteins accelerating the rate of chemical reactions.
6. Justify why heating an enzyme would alter its function.
The shape would change, the shape determines the function.
7. Identify two elements that can serve as catalysts.
 - a. Carbon anhydrase
 - b. Carbon Dioxide

Answers Ap Biology 39 Guide

**Pennsylvania State Educational
Association**



Answers Ap Biology 39 Guide:

Readers' Guide to Periodical Literature Anna Lorraine Guthrie, 1929 An author subject index to selected general interest periodicals of reference value in libraries **Learning and Understanding** National Research Council, Division of Behavioral and Social Sciences and Education, Center for Education, Committee on Programs for Advanced Study of Mathematics and Science in American High Schools, 2002-08-06 This book takes a fresh look at programs for advanced studies for high school students in the United States with a particular focus on the Advanced Placement and the International Baccalaureate programs and asks how advanced studies can be significantly improved in general It also examines two of the core issues surrounding these programs they can have a profound impact on other components of the education system and participation in the programs has become key to admission at selective institutions of higher education By looking at what could enhance the quality of high school advanced study programs as well as what precedes and comes after these programs this report provides teachers parents curriculum developers administrators college science and mathematics faculty and the educational research community with a detailed assessment that can be used to guide change within advanced study programs *Subject Guide to Books in Print* , 2001 *Readers' Guide to Periodical Literature* , 1910 **Health Fair Resource Guide** , 1986 **Reader's Guide to Periodical Literature Supplement** , 1927 **Louisiana Schools** , 1963 **The English Catalogue of Books Published from January, 1835, to January, 1863** , 1864 *The Education Index* , 1985 **Motion Picture Performers** , 1971 International bibliografi over artikler om filmskuespillere *Motion Picture Performers* Mel Schuster, 1976 **CD-ROM Guide** , 1993 *Report of the Proceedings* Pennsylvania State Educational Association, 1918 *Report of Proceedings* Pennsylvania State Education Association, 1918 **Canadian Periodical Index** , 1939 **Library Work** , 1908 *The Oklahoma Teacher* , 1940 **Whitaker's Cumulative Book List** , 1964 **El-Hi Textbooks and Serials in Print** , 2006 **OLR Index** , 1945

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