

AP Biology Exam Review Information

The AP Biology Exam puts your knowledge and understanding of modern biology to the test -- and gives you the chance to earn college credit before you're done with high school.

The AP Biology Exam consists of two sections: multiple choice and free response. Both sections include questions that assess students' understanding of the big ideas, enduring understandings, and essential knowledge and the ways in which this understanding can be applied through the science practices. These may include questions on the following:

- the use of modeling to explain biological principles;
- the use of mathematical processes to explain concepts;
- the making of predictions and the justification of phenomena;
- the implementation of experimental design; and
- the manipulation and interpretation of data.

The exam is 3 hours long and includes both a 90-minute multiple choice section and a 90-minute free-response section that begins with a mandatory 10-minute reading period. The multiple-choice section accounts for half of the student's exam grade, and the free-response section accounts for the other half.

Section I, Part A, consists of 63 multiple-choice questions that represent the knowledge and science practices outlined in the AP Biology Curriculum Framework that students should understand and be able to apply. Part B includes 6 grid-in questions that require the integration of science and mathematical skills. For the grid-in responses, students will need to calculate the correct answer for each question and enter it in a grid in the grid-in section on their answer sheet, as shown below.

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In Section II, students should use the mandatory 10 minute reading period to read and review the questions and begin planning their responses. This section contains two types of free-response questions (short and long), and the student will have a total of 80 minutes to complete all of the questions.

Due to the increased emphasis on quantitative skills and application of mathematical methods in the questions on both sections, students will be allowed to use simple four-function calculators (with square root) on the entire exam. Students will also be supplied with a formula list as part of their testing materials.

A student's total score on the multiple-choice section is based on the number of questions answered correctly. Points are not deducted for incorrect answers or unanswered questions.

THE FOUR BIG IDEAS OF AP BIOLOGY:

The key concepts and related content that define the AP Biology Exam are organized around a few underlying principles called the big ideas, which encompass the core scientific principles, theories and processes governing living organisms and biological systems.

BIG IDEA 1: The process of evolution drives the diversity and unity of life. Evolution occupies a central position in the discipline of biology.

BIG IDEA 2: Biological systems utilize free energy and molecular building blocks to grow, to reproduce and to maintain dynamic homeostasis. Different organisms employ various strategies to capture, use, and store free energy and exchange matter with the environment.

BIG IDEA 3: Living systems store, retrieve, transmit and respond to information essential to life processes. Genetic information provides for continuity of life, and this information is passed from parent to offspring. Random changes in information allow for evolution, with natural selection acting upon phenotypes.

BIG IDEA 4: Biological systems interact, and these systems and their interactions possess complex properties. All biological systems are composed of parts that interact with one another and the environment, and these interactions result in characteristics not found in the individual parts alone.

Blue Valley Ap Biology

Jin-Ying Zhang



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The American Biology Teacher ,1998 *The Science Teacher* ,1994 *Illinois Chemistry Teacher* ,1993 Who's who in American Education ,1990 **The College Board Guide to High Schools** College Entrance Examination Board,1994
Bulletin of the Museum of Comparative Zoology ,2011 *Biology Pamphlets* , **Climatological Data** ,1982
Billboard ,1959-07-20 In its 114th year Billboard remains the world s premier weekly music publication and a diverse digital events brand content and data licensing platform Billboard publishes the most trusted charts and offers unrivaled reporting about the latest music video gaming media digital and mobile entertainment issues and trends **Climatological Data** United States. Environmental Data Service,1982-06 *The State* ,1975-06 **The Compu-mark Directory of U.S. Trademarks** ,1986 Research Grants Index National Institutes of Health (U.S.). Division of Research Grants,1968
Climatological Data, Arizona United States. Environmental Data Service,1986 Climatological Data, California United States. Environmental Data Service,1960 Bibliography of Agriculture ,1974 **Climatological Data for the United States by Sections** United States. Environmental Data Service,1974 Collection of the monthly climatological reports of the United States by state or region with monthly and annual national summaries *Climatological Data* United States. Weather Bureau,1955 Collection of the monthly climatological reports of the United States by state or region with monthly and annual National summaries Hourly Precipitation Data ,1975 **The National Poland-China Record** National Poland-China Record Company,National Poland-China Record Association,1919

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