#### 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 90minute 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.

#### 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.

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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1210121 1	1.1310121	-1 171 1712	-1 121/1710

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.

# **Blue Valley Ap Biology**

**David Kirk** 

## **Blue Valley Ap Biology:**

The American Biology Teacher ,1998 The College Board Guide to High Schools College Entrance Examination
Board,1994 The Science Teacher ,1994 Illinois Chemistry Teacher ,1993 Who's who in American Education ,1990
Bulletin of the Museum of Comparative Zoology ,2011 Biology Pamphlets , The National Poland-China

**Record** National Poland-China Record Company, National Poland-China Record Association, 1919 **Bio-engineering** Aspects of Agricultural Drainage, San Joaquin Valley, California: The effects of agricultural waste water treatment on algal bio-assay response California. Department of Water Resources, 1971 **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 Kansas Register ,2004 **New York Produce Review and American Creamery** ,1924 #NeverAgain David Hogg, Lauren Hogg, 2018-06-19 NEW YORK TIMES BESTSELLER From two survivors of the Parkland Florida shooting comes a declaration for our times and an in depth look at the making of the NeverAgain movement On February 14 2018 seventeen year old David Hogg and his fourteen year old sister Lauren went to school at Marjory Stoneman Douglas High School like any normal Wednesday That day of course the world changed By the next morning with seventeen classmates and faculty dead they had joined the leadership of a movement to save their own lives and the lives of all other young people in America It's a leadership position they did not seek and did not want but events gave them no choice The morning after the massacre David Hogg told CNN We re children You guys are the adults You need to take some action and play a role Work together Get over your politics and get something done This book is a manifesto for the movement begun that day one that has already changed America with voices of a new generation that are speaking truth to power and are determined to succeed where their elders have failed With moral force and clarity a new generation has made it clear that problems previously deemed unsolvable due to powerful lobbies and political cowardice will be theirs to solve Born just after Columbine and raised amid seemingly endless war and routine active shooter drills this generation now says Enough This book is their statement of purpose and the story of their lives It is the essential guide to the NeverAgain movement **Book Review Digest** ,1918 Cornell Countryman, 1923 **Bond Guide** Standard and Poor's Corporation, 1986 The College Blue Book Huber William Hurt, Harriet-Jeanne Hurt, 1997

Climatological Data, California National Climatic Center,1981 Who's who of American Women, 1991-1992, 1991 Pennsylvania TROUT., 2005

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