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BOZEMANSCIENCE

AP Biology

[The New AP Biology Exam - A User's Guide](#)
[The 2013 AP Biology Exam Reflections](#)

AP Biology Practices

1 - Models & Representation

2 - Using Mathematics

3 - Scientific Questioning

4 - Data Collection Strategies

5 - Analysis & Evaluation of Evidence

6 - Scientific Explanations & Theories

7 - Scales, Concepts & Representations

Big Idea 1: Evolution

001 - Natural Selection

002 - Examples of Natural Selection

003 - Genetic Drift

004 - Evidence for Evolution

005 - Essential Characteristics of Life

006 - Phylogenetics

007 - Speciation and Extinction

008 - Speciation

009 - Evolution Continues

010 - Abiogenesis

011 - The Origin of Life - Scientific Evidence

Big Idea 2: Free Energy

012 - Life Requires Free Energy

- 013 - Photosynthesis & Respiration
- 014 - Environmental Matter Exchange
- 015 - Cell Membranes
- 016 - Transport Across Cell Membranes
- 017 - Compartmentalization
- 018 - Positive & Negative Feedback Loops
- 019 - Response to External Environments

- 020 - Biotic and Abiotic Factors
- 021 - Homeostatic Evolution
- 022 - Homeostatic Disruptions
- 023 - Plant & Animal Defenses
- 024 - Development: Timing & Coordination
- 025 - Mechanisms of Timing & Control
- 026 - Behavior & Natural Selection

Big Idea 3: Information

- 027 - DNA & RNA - Part 1
- 027 - DNA & RNA - Part 2
- 028 - Cell Cycle, Mitosis & Meiosis
- 029 - Mendelian Genetics
- 030 - Advanced Genetics
- 031 - Gene Regulation
- 032 - Signal Transmission
- 033 - Genotypes & Phenotypes

- 034 - Increasing Genetic Variation
- 035 - Viral Replication
- 036 - Evolution of Cell Communication

- 037 - Cell Communication
- 038 - Signal Transduction in Pathways
- 039 - Effects of Changes in Pathways
- 040 - Information Exchange
- 041 - The Nervous System

Big Idea 4: System

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|-------------------------------|--------------------------------|
| 042 - Biological Molecules | 049 - Cooperative Interactions |
| 043 - Cellular Organelles | 050 - Populations |
| 044 - Cellular Specialization | 051 - Ecosystem Changes |
| 045 - Organ System | 052 - Cellular Variation |
| 046 - Communities | 053 - Genotype Expression |
| 047 - Ecosystems | 054 - Population Variation |
| 048 - Enzymes | 055 - Biodiversity |

AP Biology Labs

- | | |
|--------------------------------------|--------------------------------------|
| 01 - Diffusion & Osmosis | AP Bio Labs - Part 1 |
| 02 - Enzyme Catalysis | AP Bio Labs - Part 2 |
| 03 - Mitosis & Meiosis | Chi-squared Test |
| 04 - Plant Pigments & Photosynthesis | Comparing DNA Sequences |
| 05 - Cellular Respiration | Diffusion Demo |
| 06 - Molecular Biology | Finding Stomata |
| 07 - Genetics of Drosophila | Population Modeling |
| 08 - Population Genetics & Evolution | Cellular Respiration Lab Walkthrough |

[09 - Transpiration](#)
[10 - Circulatory System Physiology](#)
[11 - Animal Behavior](#)
[12 - Dissolved Oxygen](#)

[Osmosis Lab Walkthrough](#)
[Photosynthesis Lab Walkthrough](#)

Supplemental AP Biology Resources

Review - Genetics	Genetics Preview
Review - Homeostasis	Gibbs Free Energy
Review - Natural Selection	Homeostasis Preview
Review - Speciation	Logistic Growth
AP Biology Test: A User Guide	Probability in Genetics
ATP: Adenosine Triphosphate	Q10 - The Temperature Coefficient
Biology	Sodaria Cross
Cell Division	Solving Hardy-Weinberg Problems
Diploid vs Haploid	Stickleback Evolution
Endosymbiosis	The Operon
Epigenetics	Three Domains of Life
Exponential Growth	Water Potential



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