



FLINNPREP™

Lab Solution for AP® Biology

SYLLABUS

Welcome to your lab experience for AP® Biology. Use this digital course to prepare yourself for the lab by reading through the lab and by watching helpful introductory, technique and summary videos. Also, learn how what you do in the lab may show up on the AP exam. Finally, answer the exam-style questions at the end of each lab to get yourself even more ready for the exam! This course includes the following advanced inquiry labs and digital components.

Lab 1 — Artificial Selection

- Introduction
- Introductory Activity Fast Plants and Trichomes; Guided Inquiry Fast Plants and Salt Exposure
- Summary
- Practice Exam Questions
- Reteach Videos

Lab 2 — Understanding Evolutionary Relationships

- Introduction
- Introductory Activity: Navigating the National Center for Biotechnology Information Website
- Summary
- Practice Exam Questions
- Reteach Videos

Lab 3 — Water Potential

- Introduction
- Introductory Activity: Making a Wet Mount Using Onion Epidermis
- Introductory Activity: Proper Slide Set-Up Under the Microscope
- Introductory Activity: Observing Cells Under the Microscope
- Summary
- Practice Exam Questions
- Reteach Videos

Lab 4 — Diffusion and Osmosis

- Introduction
- Introductory Activity: Using Phenolphthalein Agar Blocks with Hydrochloric Acid Penetration
- Guided Inquiry: Using Dialysis Tubing with Various Solutions
- Summary
- Practice Exam Question
- Reteach Videos

Lab 5 — Photosynthesis in Leaf Disks

- Introduction
- Introductory Activity: Setting Up the Experiment
- Guided Inquiry
- Summary
- Practice Exam Questions
- Reteach Videos

Lab 6 — Cellular Respiration

- Introduction
- Respirometer Construction
- Introductory Activity: Setting Up and Usage of Respirometers
- Summary
- Practice Exam Questions
- Reteach Videos

Lab 7 — Environmental Effects on Mitosis

- Introduction
- Introductory Activity: Prepping the Onion Squash Slide
- Introductory Activity: Viewing and Counting Cells Under the Microscope
- Summary
- Practice Exam Questions
- Reteach Videos

Lab 8 — Cancer and the Loss of Cell Cycle Control

- Introduction
- Introductory Activity: Investigating a Karyotype
- Summary
- Practice Exam Questions
- Reteach Videos

Lab 9 — Sordaria Genetics

- Introduction
- Procedure Part 1 Plating Sordaria
- Summary
- Practice Exam Questions
- Reteach Videos

Lab 10 — Bacterial Transformation

- Introduction
- Practice Exam Questions

Lab 11 — Restriction Enzyme Analysis of DNA

- Introduction
- Practice Exam Questions

Lab 12 — Rate of Transpiration

- Introduction
- Introductory Activity: Getting an Impression of Stomata from a Leaf
- Introductory Activity: Viewing the Stomata Impression Under the Microscope
- Guided Inquiry: Whole Plant Method
- Summary
- Reteach Videos

Lab 13 — Fruit Fly Behavior

- Introduction
- Introductory Activity: Setting Up the Experiment
- Guided Inquiry
- Summary
- Practice Exam Questions
- Reteach Videos

Lab 14 — Peroxidase Enzyme Activity

- Introduction
- Introductory Activity: Featuring Using a Spectrophotometer
- Summary
- Practice Exam Questions
- Reteach Videos

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FlinnPREP[™] Lab Solution for AP[®] Biology

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