

AP Biology Summer Institute Agenda:

DAY 1: Understanding AP Biology

- Understanding the New AP Biology Curriculum
 - Course Framework, Unit Guides, Topic Pages
- Planning Your Course
- Content and Skills - Teaching For Understanding
- Science Practices - Teaching for Transfer
- Scaffolding and Spiraling the Science Practices
- Investigations:
 - Transpiration
 - Hardy Weinberg Modeling
 - Exploring Mendelian Genetics

DAY 2: Planning and Teaching AP Biology

- The BILL: Biology Interactive Learning Log
- Instructional Approaches in AP Biology
- Scaffolding and Spiraling Concepts in AP Biology
- Planning Your Course
- Science Practices:
 - Statistics and Data Analysis
 - Visualizing Information
- Investigations:
 - Enzyme Catalysis with Yeast Spheres
 - Diffusion and Osmosis
 - BLAST

DAY 3: Planning and Teaching AP Biology

- Science Practices:
 - Representing and Describing Data
 - Question and Method
 - Statistics and Data Analysis
 - Argumentation
- Investigation Write Ups
- Investigations:
 - DNA Restriction Analysis
 - Transformation
- Planning Your Course
- Using Scientific Arguments to Make Connections

DAY 4: Assessing Progress and Understandings

- Science Practices: Concept Application
- Investigations:
 - Cellular Respiration
 - Signal Transduction of Taste
 - Animal Behavior
- ShoeBox Investigations: Photosynthesis
- Assessments:
 - AP Exam Structure
 - Formative vs Summative
 - Assessing Student Responses
- AP Course Audit and Curricular Requirements
- AP Teacher Community and Resources