

Oregon AP Biology Institute Agenda 2024

Day 1: Understanding AP Biology

- **Understanding the AP Biology Curriculum**
 - Course Framework, Unit Guides, Topic Pages
- **Planning Your Course-Schedule Challenges**
- **Content and Skills: Teaching for Understanding**
- **Science Practices: (Skills) Teaching for Transfer**
- **Scaffolding and Spiraling the Science Practices**
- **Investigations and Science Practices**
- **AI Discussion**
 - Transpiration
 - Exploring Mendelian Genetics
 - Primary Productivity/Photosynthesis
 - Hardy Weinberg Modeling
 - Artificial Selection

Day 2: Planning and Teaching AP Biology

- **Equity and AP**
- **Instructional Approaches in AP Biology**
- **Notebook use and Grading Strategies**
- **Scaffolding and Spiraling Concepts in AP Biology**
- **Planning Your Course**
- **Science Practices**
 - Statistics and Data Analysis
 - Visualizing Information
- **Investigations**
 - Enzyme Catalysis
 - Diffusion
 - BLAST

Day 3: Planning and Teaching AP Biology

- **Science Practices**
 - Representing and Describing Data
 - Question and Method
 - Statistics and Data Analysis
 - Argumentation
- **Investigation Reports (CER/CEJ...) Write Ups**
- **Investigations**
 - Gel Electrophoresis-DNA Restriction Analysis
 - Transformation
- **Planning Your Course**

- **Using Scientific Argumentation to Make Connections**

Day 4: Planning, Assessing Progress and Understanding

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