



Professional Development Workshop Offerings 2016–2017

Workshop Offerings

AP[®]

AP[®] workshops are designed to help teachers and administrators develop and deepen their programs to prepare students for the rigors of college. Sessions led by College Board consultants feature innovative best practices and research-based strategies that can assist you in helping your students achieve their academic goals. AP workshops can help you to:

- **Align instruction with the goals of the AP course;**
- **Identify the skills and knowledge that the exam will assess, and identify the tasks and materials for which students might need more preparation.**
- **Draft a syllabus that meets the curricular requirements for the course.**
- **Make equitable access a guiding principle in designing instruction.**

One-day workshops are available in the following AP subject areas:

Art History	Latin
Biology	Macroeconomics
Calculus AB	Microeconomics
Calculus BC	Music Theory
Chemistry	Physics 1
Chinese Language and Culture	Physics 2
Comparative Government and Politics	Physics C: Electricity and Magnetism
Computer Science A	Physics C: Mechanics
Computer Science Principles	Psychology
English Language and Composition	Spanish Language and Culture
English Literature and Composition	Spanish Literature and Culture
Environmental Science	Statistics
European History	Studio Art: 2-D Design
French Language and Culture	Studio Art: 3-D Design
German Language and Culture	Studio Art: Drawing
Human Geography	U.S. Government and Politics
Italian Language and Culture	U.S. History
Japanese Language and Culture	World History

AP Topical One-Day Workshops

AP Biology: Transitioning to Inquiry-Based Labs

Inquiry-based labs allow students to engage in science practices that require them to think and act like scientists. In this workshop, you will focus on understanding inquiry and its place in the classroom. You will analyze how traditional labs differ from inquiry-based labs and learn strategies for modifying traditional, “cookbook” labs to make them inquiry-based. In addition, you will have an opportunity to plan how you will transition your curriculum to focus on inquiry. After this workshop, you will be able to confidently create and implement inquiry-based labs.

AP Chemistry: Transitioning to Inquiry-Based Labs

Inquiry-based labs allow students to think and act like scientists. In this workshop, you will focus on inquiry and its place in the classroom, and learn how to confidently create inquiry-based labs. You will analyze how traditional labs differ from inquiry-based labs and practice modifying traditional labs to make them inquiry based. In addition, you will have an opportunity to plan how to transition your curriculum and laboratory environment to focus on inquiry.

AP Physics 1 and 2: Building Students’ Reasoning Skills

This workshop will introduce you to strategies you can use to engage students in deeper conceptual understanding of foundational physics principles. You will examine Physics Education Research findings on instructional approaches that support students’ enduring understanding of physics concepts. You will also review and engage in several tasks that will help students develop scientific reasoning practices through conceptual-based question types, leaving the workshop with model questions as well as questions you have developed on your own, for immediate classroom implementation.

AP Strategies: Using Data to Design Instruction

This one-day interdisciplinary workshop will help educators use AP score data to plan effective instruction. Participants will learn how to read and analyze the AP Instructional Planning Report and then use that data to design instruction for all students. In addition, participants will learn cross-curricular strategies for differentiating instruction in the AP classroom.

Quantitative Skills for AP Biology

The goal of the AP Biology course is for students to think and act like scientists. Experimental biology relies heavily on quantitative skills and analysis, skills that are crucial for thinking and acting like a scientist. This workshop will provide AP Biology teachers with an understanding of quantitative skills and how to incorporate them into the classroom so that students develop the habits of mind that allow them to regularly use these skills in meaningful ways. This workshop is open to any AP Science teacher and may also be especially helpful for teachers who teach courses that lead to AP Biology.

Participants will build their own understanding of quantitative skills, analyze how quantitative skills are assessed on the AP Biology Exam, and learn strategies for teaching quantitative skills. In addition, participants will have an opportunity to plan how they will transition their curricula to incorporate more opportunities for students to learn and intentionally use quantitative skills on a daily basis.

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Strategies for Success in AP Mathematics

AP Chief Reader reports show that students often make the same errors and omissions on the AP Exam. In this workshop, you will learn how to help your students develop academic vocabulary, understand difficult text through close reading, and provide meaningful answers to difficult and complex questions. You will leave the workshop with strategies you can immediately implement in your AP curriculum.

Strategies for Success in AP Sciences

AP Chief Reader reports show that students often make the same errors and omissions on the AP Exam. In this workshop, you will learn how to help your students develop academic vocabulary, make meaning of difficult text through close reading, and provide meaningful answers to complex questions. You will leave the workshop with strategies you can immediately implement in your AP curriculum.

Administrators

Building an AP Program: A Workshop for Administrators

This is an in-depth survey of ways to start and support an AP program. It begins with a review of the benefits of the AP Program for schools, and goes on to explore how administrators can support their AP teachers and students.

Organizing Your AP Exam Administration: A Workshop for AP Coordinators

These full-day workshops are designed to help new and experienced Coordinators learn how to efficiently and successfully manage their schools' AP programs.

In this workshop, you will have the chance to exchange best practices and learn new ways to handle the responsibilities of coordinating an AP program. You are encouraged to bring and share materials you use to help organize your program.

Day With an AP Reader

Day With an AP Reader (Biology, Calculus, English Language and Composition)

These one-day workshops provide a behind-the-scenes look at the AP Readings. Workshops are subject-specific and available for new and experienced teachers of AP Biology, AP Calculus, and AP English Language and Composition.

During the annual readings, AP free-response questions are read by more than 11,000 college faculty and AP teachers from around the world. In these workshops, participants will learn about the mechanics of the scoring process, the roles of the various contributors, and the steps to ensure consistent grading. As part of this workshop, participants will engage in an AP Reading-style training, applying a rubric based on a current free-response question, and participate in a mock reading using the rubric.

Pre-AP[®]

Vertical Teaming

Building an AP Vertical Team

Pre-AP[®]: Setting the Cornerstones™ for AP Vertical Teams[®]

Length: 2 days

In this workshop, you and fellow administrators and teachers will create a step-by-step action plan for building an AP Vertical Team in your school. You will compile a toolkit of concrete strategies and methods for implementing each cornerstone (Standards Alignment, Research-Based Strategies, Instructional Design, and Professional Learning Communities) and integrating them into a design for a viable Vertical Team. Through guided discussions, you will identify and solve potential roadblocks.

English

Pre-AP Strategies: AP Vertical Teams in English

Length: 1 or 2 days

This workshop gives middle and high school teachers the tools to strengthen an AP Vertical Team and to align curriculum vertically across grade levels within the English discipline. You and fellow Vertical Team members will examine the components of good text analysis and the connections between how students read and how effectively they write. Through the implementation and vertical articulation of concrete strategies, you will gain a deeper understanding of the knowledge and skills students need in college-level courses.

Mathematics

Pre-AP Strategies: AP Vertical Teams in Mathematics

Length: 1 or 2 days

In this workshop for middle and high school teachers, you will learn how to strengthen an AP Vertical Team and create a curriculum that emphasizes key concepts of mathematics at all levels of instruction. Through the implementation and vertical articulation of concrete strategies, you will gain a deeper understanding of the skills and knowledge students need in college-level courses.

Pre-AP: Advanced Topics for AP Vertical Teams in Mathematics— Assessment

Length: 1 day

In this workshop for middle and high school teachers, you will learn techniques of assessment designed to support instruction for students as active learners and problem solvers. Educators increasingly recognize that the purpose of assessing student achievement is to help teachers make decisions about instruction.

Assessments, reliability, validity, scoring guidelines, and performance appraisals are the key topics covered in this workshop.

Music Theory

Pre-AP: Topics for AP Vertical Teams in Music Theory

Length: 1 day

A Vertical Team in music, which reinforces music theory skills and concepts from one grade level to the next, is an ideal way to prepare students for AP Music Theory. This workshop shows how content can drive collaboration and communication among music teachers (including classroom, band, choir, and orchestra teachers) to further music literacy in students and help them develop as musicians. You will gain an understanding of the impact that team building has on the overall learning experience of students.

Science

Pre-AP Strategies: AP Vertical Teams in Science

Length: 1 or 2 days

This workshop is intended for middle and high school teachers who will be forming and/or strengthening an AP Vertical Team. You will develop research-based strategies for engaging students in science practices, aligning curriculum, and creating an action plan for your AP Vertical Team.

Social Sciences/Studies

Pre-AP Strategies: AP Vertical Teams in History and the Social Sciences

Length: 1 or 2 days

This workshop gives you the tools to align your history and social science curriculum by building and strengthening an AP Vertical Team. You will learn research-based strategies to engage students. You will emerge from this workshop with a skills-based approach to curriculum development and a concrete action plan for your AP Vertical Team so that you can better prepare your students for success in college-level courses.

Pre-AP: Advanced Topics for AP Vertical Teams in Social Studies— Developing Reading Habits

Length: 1 day

A coherent, articulated program of effective strategies will improve student performance in essay writing by giving students a framework that allows them to develop their writing proficiency. Workshop topics include reading research, questioning grids, main idea clusters, text charting, reading pods, and utilizing the AP Vertical Team to develop analytical and critical reading skills. Although individual teachers will benefit from the strategies presented here, the power of these strategies is best realized through an AP Vertical Team that spans grades 6–12.

Studio Art

AP Vertical Teams in Studio Art

Length: 1 or 2 days

This workshop gives you the tools to build and/or strengthen an AP Vertical Team and to align a curriculum vertically across grades within the studio art discipline. Through the implementation and vertical articulation of concrete strategies, you will gain a deeper understanding of the skills and knowledge students need to succeed at the AP level. You will learn strategies to facilitate

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student achievement in visual analysis and critical thinking, development of technical skills, and ideation and expression of artistic voice, as needed to develop an AP Studio Art portfolio.

World Languages and Cultures

Pre-AP Strategies: AP Vertical Teams in World Languages and Cultures

Length: 1 or 2 days

This workshop is intended for middle and high school teachers who will be building or strengthening an AP Vertical Team. You will acquire the tools and standards-based instructional strategies needed for engaging students, aligning a curriculum, and creating an action plan for your AP World Languages Vertical Team.

Strategies

English

Pre-AP: Strategies in English—Beyond Acronyms: Inquiry-Based Close Reading

Length: 1 day

In this workshop for middle and early high school teachers, you will learn to facilitate inquiry-based practices through close reading in your classrooms.

The strategies presented in this workshop will lay the groundwork necessary for students to begin to meet the demands of rigorous course work. The workshop focuses on classroom strategies that allow students to ask and generate questions, develop the ability to actively engage with any text, and analyze and document their own thinking while reading. Topics addressed include: close reading questioning, critical thinking question stems, dialectical journaling, analytical writing, and holistic assessment.

Pre-AP Strategies in English: Composition

Length: 1 day

In this workshop for middle and high school teachers, you will be given tools to teach writing on demand, paraphrasing, and summarizing. In addition, you will develop strategies for analyzing visual and written material. The workshop incorporates hands-on activities that will enable you to experience the subject matter from a student's perspective and help you apply these new strategies to your classroom practice.

Pre-AP: Strategies in English—Differentiated Instruction in Middle School Language Arts

Length: 1 day

This workshop focuses on differentiated classroom strategies that allow all students access to high-level English/language arts content. When applying what you learn during this workshop, you will be able to match learners with the most effective teaching strategies and activities so that they will all achieve at their highest potential. The workshop will lead you through strategies and discussions that will enable you to learn about, think about, and implement in your own classrooms differentiated instruction in English/language arts.

Pre-AP: Strategies in English—The Five-S Strategy for Passage Analysis

Length: 1 day

This workshop introduces strategies that will enable you and your students to become more systematic in the literary analysis done before writing analytical compositions. You will learn a loose and adaptable approach that your students can reliably use (especially under time constraints) to analyze a passage—whether poetry or prose—by focusing on the speaker, situation, key sentences, shifts, and syntax.

Pre-AP: Strategies in English—Rhetoric

Length: 1 day

This workshop is designed to help you understand the classical art of rhetoric in its two senses: language as crafted for an audience; and the ability to find, evaluate, and use all of the available

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tools of language to achieve a specific purpose or a desired effect in a given situation. You will engage in activities that will enable you to teach your students important rhetorical theory principles that underlie the effectiveness of excellent writers and support the clear thinking and sound judgment of successful readers.

Pre-AP: Strategies in English—Writing Tactics Using SOAPStone

Length: 1 day

In this workshop, for middle and high school teachers, you will learn classroom tactics to help students analyze writing and create their own texts. You will also discuss the concepts underlying the writing process, narrative, the persuasive essay, and analytical writing through the use of SOAPStone (identifying speaker, occasion, audience, purpose, subject, and tone). You will learn strategies and classroom activities through which you can respond to some common problems in student writing.

Interdisciplinary

Pre-AP: Interdisciplinary Strategies—Argumentation and the Writing Process

Length: 1 day

In this workshop for middle and high school social studies, English, and humanities teachers, you will learn how to help your students develop a logical and effective argument. You will learn strategies that enable students to discover and work with the elements of argumentation, and how to use texts to analyze and construct arguments and assess written performance.

Pre-AP Interdisciplinary Strategies for English and the Social Sciences

Length: 1 or 2 days

In this workshop, you will learn research-based strategies for strengthening students' reading comprehension and writing skills in English and the social sciences course work. The workshop emphasizes teaching interdisciplinary readings, analyzing texts, and writing on demand.

Pre-AP: Effective Thinking Strategies for All Students

Length: 1 day

In this workshop for middle and high school teachers, you will learn research-based strategies to help students activate their background knowledge, deepen their comprehension, and develop an academic vocabulary. This workshop explores the benefits of using cross-curricular strategies to meet the needs of a diverse population of students.

Mathematics

Pre-AP: Strategies in Mathematics—Accumulation

Length: 1 day

This workshop uses grade-level-appropriate content, classroom strategies, and technology to examine development of accumulation concepts for grades 6–12. In teams, you will use a guided-exploration approach to develop problems, instructional activities, assessment items, and cross-grade lessons for classroom use. You will also learn embedded diagnostic and formative assessment strategies that allow you to monitor and foster mathematical thinking, and can also be used to develop students' communication skills. Specific topics include the concept of area; accumulating distance when speed is constant, changes, or is a function; velocity distinct from speed; and the big picture of accumulation.

Pre-AP: Strategies in Mathematics—Analyzing and Describing Data**Length:** 1 day

This workshop will provide materials and experiences to support mathematics and science teachers in teaching the central elements of statistical analysis. You will explore the data analysis topics taught in middle and secondary grades using examples of activities where students collect data, use graphs and numerical summaries to get information from data, and communicate that information.

Pre-AP: Strategies in Mathematics—Chance, Variation, and Probability**Length:** 1 day

In this workshop, you will use research on the learning of probability and engage in classroom activities that progress through elementary definitions and concepts of probability, culminating in the use of simulation to model probability problems. You will gain significant knowledge about finding and correcting student misinterpretations about these events, and then discover ways to improve student understanding through reflection and communication. You will learn to develop activities for the classroom that help connect the content to events relevant to students and their lives. Specific topics include classical probability; law of large numbers; and probability rules, distributions, and conditions.

Pre-AP: Strategies in Mathematics—Developing Algebraic Thinking**Length:** 1 day

This workshop is for mathematics teachers for grades 6–10. You will learn how to use graphing calculators to help students visualize and explore algebra from graphical, numerical, and analytical perspectives, as well as from traditional symbolic representations. You will also learn how to use inquiry learning in teaching algebraic thinking, use patterns to find relationships, use tables in investigating relationships, and describe patterns using both recursive and closed relationships.

Pre-AP: Strategies in Mathematics—Functions**Length:** 1 day

In this workshop, you will develop a deep content knowledge of functions and discuss grade-level-appropriate content and classroom strategies, including using technology to promote understanding. You will acquire skills that promote students' methodical thinking and their clear communication of those thought processes. This workshop illustrates a guided-exploration approach that emphasizes student thinking as the key to learning, and communication as the key to assessing understanding. Specific topics include linear, quadratic, and nonlinear functions.

Pre-AP: Strategies in Mathematics—Helping Students Learn Mathematics Through Problem Solving**Length:** 2 days

This workshop provides strategies for designing and using meaningful investigations, writing dynamic problems, and enhancing current classroom activities to help students develop a deeper understanding and produce more thoughtful responses. You will also learn how to build relevant, informative assessments that will monitor and foster mathematical thinking without interrupting instruction.

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Pre-AP: Strategies in Mathematics—Rate

Length: 1 day

This workshop emphasizes the grade-level-appropriate content, classroom strategies, diagnostic assessment practices, and technology that help students understand rate. You will learn highly effective classroom activities and how content, pedagogy, and embedded assessment can help shape the mathematics curriculum. Specific topics include absolute and relative growth, instantaneous rate, and rate of change.

Science

Pre-AP: Strategies in Science—Creating a Learner-Centered Classroom

Length: 2 days

In this workshop, you will create a classroom that orchestrates discourse through speaking, writing, and graphic representation. Specific strategies addressed include inquiry-based learning, discussion and discourse techniques, a five-stage instructional model, inductive thinking, discrepant events, brainstorming, assignment of roles in collaborative groups, and graphic organizers. You will learn strategies for designing and using meaningful investigations, writing dynamic problems, and enhancing current classroom activities so that students develop a deeper understanding of concepts and produce more thoughtful responses. You will gain a clear understanding of how successful students learn and how to develop those skills in others, as well as how to build relevant, informative assessments that allow you to monitor and foster scientific thinking without interrupting instruction.

Pre-AP Strategies in Science: Energy Systems

Length: 1 day

This workshop supports middle and high school teachers in designing integrated, theme-based instruction to prepare students for AP science courses. The strategies, activities, and discussions in this workshop will help you identify concepts that extend across all science subjects. Through the implementation and clear articulation of concrete strategies, you will gain a deeper understanding of the skills and knowledge students need at in college-level courses.

Pre-AP Strategies in Science: Inquiry-Based Laboratories

Length: 1 day

This workshop for middle and high school teachers will explain the differences between traditional and inquiry-based labs. You will learn to design laboratory experiences beyond the scientific method and incorporate inquiry-based techniques within your traditional lab settings to foster critical thinking in students.

Social Sciences/Studies

Pre-AP Strategies in History and the Social Sciences

Length: 1 day

This interactive workshop presents middle and high school teachers with strategies to improve students' historical thinking skills, specifically interpretation and analysis. By exploring primary, secondary, written, and visual sources, you will gain a deeper understanding of the skills and knowledge students need in college-level courses.

**Pre-AP Strategies in History and the Social Sciences:
Crafting Historical Arguments****Length:** 1 day

For middle and high school teachers, this workshop presents strategies for improving students' writing skills in history and the social sciences, focusing specifically on prewriting and structuring an argument. You will identify where students face the greatest writing challenges and learn how to help them develop the writing skills necessary for college-level work.

Pre-AP: Strategies in Social Studies—Using Visual Materials in Middle School Classrooms**Length:** 1 day

This workshop will give you strategies for analyzing and synthesizing nontext sources in middle school history and geography classrooms. You will examine models of questioning for works of art, cartoons, quantitative data, and photographs. You will learn to use these models to promote student skills in source analysis, evaluation, and synthesis.

Pre-AP: Strategies in Social Studies—Writing Tactics Using SOAPSTone**Length:** 1 day

In this workshop designed for middle and early high school social studies teachers, you will address some of the problems students encounter in their writing. When teachers from all grade levels work together to introduce and reinforce critical reading and analytical writing strategies such as SOAPSTone (identifying speaker, occasion, audience, purpose, subject, and tone), students are more likely to acquire the habits of mind and skills of sophisticated writers. Workshop topics include the writing process, narrative, the persuasive essay, and analytical writing.

World Languages and Cultures**Interpersonal Communication in Pre-AP World Languages and Cultures****Length:** 1 day

In this workshop for middle and high school teachers, you will gain concrete strategies for developing the skills and knowledge students need at the Pre-AP level in a target language. You will examine the AP Achievement Level Descriptions and World Language Performance Levels from the Curriculum Alignment Guide and the Standards for Foreign Language Learning in the 21st Century.

Presentational Communication in Pre-AP World Languages and Cultures**Length:** 1 day

In this workshop for middle and high school teachers, you will gain concrete strategies for developing the skills and knowledge students need at the Pre-AP level in the Presentational mode. You will also examine the AP Achievement Level Descriptions and World Language Performance Levels from the Curriculum Alignment Guide and the Standards for Foreign Language Learning in the 21st Century.

Interpretive Communication in Pre-AP World Languages and Cultures**Length:** 1 day

In this workshop for middle and high school teachers, you will learn concrete strategies for developing the skills and knowledge students need at the Pre-AP level in a target language. You will also examine the AP Achievement Level Descriptions and World Language Performance Levels from the Curriculum Alignment Guide and the Standards for Foreign Language Learning in the 21st Century.

Instructional Leadership

Instructional Leadership workshops provide teachers, counselors, district office administrators and campus administrators with strategies that help integrate professional development into a systemwide process for improving instructional practices and student learning. Specific topics include creating AP Vertical Teams to develop a school culture that improves the teacher's capacity to provide quality instruction in the school and the district; supporting existing practices, and creating new settings where learning can occur; providing structure to support systems that transform information into knowledge; and implementing policies to provide academically challenging instruction for all students.

Pre-AP Instructional Leadership: Fostering Equity and Access

Length: Half day

In this workshop, you and other local and district-based school leaders will learn concrete strategies for expanding access to AP programs and advanced course work to underrepresented students. You will explore methods for implementing and sustaining a school culture that creates the opportunity for all willing and academically prepared students to participate in AP.

