



PLANNED INSTRUCTION

A PLANNED COURSE FOR:

AP Research

Curriculum Writing Committee:

Jessica Hubal

Grade Level: 12th

Date of Board Approval: _____

Course Weighting: AP Research

Major Assessments (PREP Checks, IRB Application Drafts, Academic Paper Drafts, Performance Assessments)	90%
Minor Assessments (Research Activities, Mini Presentations, Mentor Forms, etc.)	10%
Total	100%

Curriculum Map

Overview: AP Research, the second course in the AP Capstone experience, allows students to deeply explore an academic topic, problem, issue, or idea of individual interest. Students design, plan, and implement a yearlong investigation to address a research question. Through this inquiry, they further the skills they acquired in the AP Seminar course by learning research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing information. Students reflect on their skill development, document their processes, and curate the artifacts of their scholarly work through a process and reflection portfolio. The course culminates in an academic paper of 4,000–5,000 words (accompanied by a performance, exhibit, or product where applicable) and a presentation with an oral defense.

Goals:

- **Marking Period 1 (45 days) - Students will be able to ...**
 - **Unit 1: An Introduction to Academic Writing and Advanced Placement Research (25 Days)**
 - Create and utilize Process Reflection Portfolio (PREP).
 - Review ethical research practices (Academic Honesty, Plagiarism, IRBs and Turnitin).
 - Identify a topic of interest and an area of inquiry using summer work.
 - Conduct preliminary research.
 - Develop research question(s) and select appropriate methods for the inquiry process.
 - Begin developing an annotated bibliography
 - **Unit 2: From Topic to Proposal - An Integrated Plan (20 days)**
 - Present preliminary inquiry proposal for peer review.
 - Find and secure an expert advisor.
 - Develop Study Description and Study Rationale sections of the Institution Review Board (IRB) application.
- **Marking Period 2 (45 days) - Students will be able to ...**
 - **Unit 2: From Topic to Proposal - An Integrated Plan (Continued) (15 days)**

- Reflect on feedback and complete background components of inquiry through annotated bibliographies.
 - Finalize the choice and design of the inquiry method, as well as the research question.
 - Submit a revised version of IRB application (if necessary) and give formal poster presentation and elevator speech.
 - **Unit 3: Implementing the Inquiry Plan – Methods, Mentors, and the Literature Review**
 - Implement the inquiry plan through continued research, data collection, etc. (experiments, surveys, products, and interviews). Write a literature review.
 - **Unit 4: Preparing the Academic Paper – Drafting Components, Presentation Preparation, and Utilizing Peer Reviews**
 - Continue researching.
 - Begin draft of academic paper, focusing first on revised literature review and methodology sections of the paper.
- **Marking Period 3 (45 days) - Students will be able to ...**
 - **Unit 4: Preparing the Academic Paper – Drafting Components, Presentation Preparation, and Utilizing Peer Reviews**
 - Complete any additional experiments, surveys, products, and interviews used for support of research focus.
 - **Unit 5: Wrapping Up the Deliverables – Academic Paper, Presentation, and Oral Defense**
 - Complete full rough draft of academic paper.
 - Submit academic papers to the College Board Digital Portfolio for teacher assessment.
- **Marking Period 4 (45 days) - Students will be able to ...**
 - **Unit 5: Wrapping Up the Deliverables – Academic Paper, Presentation, and Oral Defense**
 - Prepare, practice and deliver a presentation with oral defense.
 - Submit presentation with oral defense to the College Board Digital Portfolio for teacher assessment.
 - **Unit 6: Moving Beyond the Advanced Placement Research Course**
 - Deliver final, curated copy of the PREP which articulates moments of insight, challenge, and change experienced in the course as well as implications for further research or study; complete additional Advanced Placement exams to qualify for the AP Capstone Diploma.
 - Update and practice presentation to present at AP Research Presentation Dinner (Note: Parents, expert advisers, administrators, school board members and teachers are invited).
 - Create a poster that outlines major sections of academic research.
 - Present work and discuss the AP Research course with current AP Seminar students.

Textbook and Supplemental Resources:

- **Supplemental Resources:**
 - AP Classroom Teacher/Student Resources
 - AP Videos, rubrics, scoring examples, etc.
 - AP Digital Portfolio
 - EBSCO Host Database
 - <https://scholar.google.com/>
 - <https://eric.ed.gov/>

Curriculum Plan

Unit 1-5: AP Research: Course and Exam Description (Attached)

- <https://apcentral.collegeboard.org/media/pdf/ap-research-course-and-exam-description>

Unit 6: Moving Beyond the Advanced Placement Research Course

- **Standards:**
 - CR1a - Students develop and apply discrete skills identified in the learning objectives within the Big Idea 1: Question and Explore.
 - CR1b - Students develop and apply discrete skills identified in the learning objectives within the Big Idea 2: Understand and Analyze.
 - CR1c - Students develop and apply discrete skills identified in the learning objectives within the Big Idea 3: Evaluate Multiple Perspectives.
 - CR1d - Students develop and apply discrete skills identified in the learning objectives within the Big Idea 4: Synthesize Ideas.
 - CR1f - Students develop and apply reflection skills identified in the learning objectives within the Big Idea 5: Team, Transform, and Transmit.
 - CR1g - Students develop and apply written and oral communication skills identified in the learning objectives within the Big Idea 5: Team, Transform, and Transmit.

Objectives:

- Students will identify the key components of the PREP (insight, challenge, change, implications for future research). (DOK 1)
- Students will recognize effective presentation elements (organization, clarity, audience awareness). (DOK 1)
- Students will summarize their research question, methodology, and findings in a concise format appropriate for a non-expert audience. (DOK 2)
- Students will apply peer review strategies to provide constructive, rubric-aligned feedback. (DOK 2)
- Students will analyze how their thinking evolved throughout the research process and connect that evolution to specific decisions or evidence. (DOK 3)

- Students will transfer research skills (inquiry, analysis, communication) to future academic, professional, or real-world scenarios. (DOK 4)

Core Activities and Corresponding Instructional Methods:

- Draft, revise, and finalize PREP journal focusing on insights, challenges, and future implications.
- Design and create a research poster that visually represents all key components of their academic paper, including literature, research question, methodology, key findings, and conclusions/implications.
- Revise and adapt formal AP Research presentation to effectively communicate with a non-expert audience for Presentation Night/Dinner.
- Prepare and deliver research presentations/discussion questions to current AP Seminar students.

Assessments:

- **Diagnostic:**
 - Final Academic Research Paper submitted to College Board in April
 - Final presentation used during Presentation and Oral Defense in April
- **Formative:**
 - Peer reviewed activities to review/reflect PREP, presentation, and poster.
 - Practice presentations
 - Final written reflection of course
- **Summative:**
 - Presentation and participation at Presentation Night/Dinner
 - Project Poster
- **Correctives:**
 - Guided reflection templates
 - 1-1 Conferencing
- **Extensions:**
 - Submit research to symposiums, competitions, journals, etc.
 - Create a method comparison analysis (using project extensions from paper)
 - Develop and present a mock grant proposal that highlights a revised method and justifies why the updated approach merits funding



INCLUDES

- ✓ Curriculum framework
- ✓ Instructional section
- ✓ Assessment overview
- ✓ Student handouts

AP[®] Research

COURSE AND EXAM DESCRIPTION

Effective
Fall 2024

IMPORTANT INFORMATION ABOUT AP RESEARCH:

Any school can participate in the AP Capstone Diploma Program. As of the 2024-25 school year, no application or sign-up form is required.

Schools that offer AP Seminar or AP Research must ensure that their teachers complete the required summer professional learning prior to teaching either course.

AP Research may only be offered as the second course in the AP Capstone sequence, following AP Seminar.

See collegeboard.org/apcapstone for details.

Effective Fall 2024



THIS PAGE IS INTENTIONALLY LEFT BLANK.

AP[®] Research

COURSE AND EXAM DESCRIPTION

Part of the AP Capstone™ Program

Revised Edition

Effective
Fall 2024

AP COURSE AND EXAM DESCRIPTIONS ARE UPDATED PERIODICALLY

Please visit AP Central (apcentral.collegeboard.org) to determine whether a more recent course and exam description is available.

What AP® Stands For

Thousands of Advanced Placement teachers have contributed to the principles articulated here. These principles are not new; they are, rather, a reminder of how AP already works in classrooms nationwide. The following principles are designed to ensure that teachers' expertise is respected, required course content is understood, and that students are academically challenged and free to make up their own minds.

1. AP stands for clarity and transparency. Teachers and students deserve clear expectations. The Advanced Placement Program makes public its course frameworks and sample assessments. Confusion about what is permitted in the classroom disrupts teachers and students as they navigate demanding work.
2. AP is an unflinching encounter with evidence. AP courses enable students to develop as independent thinkers and to draw their own conclusions. Evidence and the scientific method are the starting place for conversations in AP courses.
3. AP opposes censorship. AP is animated by a deep respect for the intellectual freedom of teachers and students alike. If a school bans required topics from their AP courses, the AP Program removes the AP designation from that course and its inclusion in the AP Course Ledger provided to colleges and universities. For example, the concepts of evolution are at the heart of college biology, and a course that neglects such concepts does not pass muster as AP Biology.
4. AP opposes indoctrination. AP students are expected to analyze different perspectives from their own, and no points on an AP Exam are awarded for agreement with any specific viewpoint. AP students are not required to feel certain ways about themselves or the course content. AP courses instead develop students' abilities to assess the credibility of sources, draw conclusions, and make up their own minds.

As the AP English Literature course description states: "AP students are not expected or asked to subscribe to any one specific set of cultural or political values, but are expected to have the maturity to analyze perspectives different from their own and to question the meaning, purpose, or effect of such content within the literary work as a whole."

5. AP courses foster an open-minded approach to the histories and cultures of different peoples. The study of different nationalities, cultures, religions, races, and ethnicities is essential within a variety of academic disciplines. AP courses ground such studies in primary sources so that students can evaluate experiences and evidence for themselves.
6. Every AP student who engages with evidence is listened to and respected. Students are encouraged to evaluate arguments but not one another. AP classrooms respect diversity in backgrounds, experiences, and viewpoints. The perspectives and contributions of the full range of AP students are sought and considered. Respectful debate of ideas is cultivated and protected; personal attacks have no place in AP.
7. AP is a choice for parents and students. Parents and students freely choose to enroll in AP courses. Course descriptions are available online for parents and students to inform their choice. Parents do not define which college-level topics are suitable within AP courses; AP course and exam materials are crafted by committees of professors and other expert educators in each field. AP courses and exams are then further validated by the American Council on Education and studies that confirm the use of AP scores for college credits by thousands of colleges and universities nationwide.

The AP Program encourages educators to review these principles with parents and students so they know what to expect in an AP course. Advanced Placement is always a choice, and it should be an informed one. AP teachers should be given the confidence and clarity that once parents have enrolled their child in an AP course, they have agreed to a classroom experience that embodies these principles.

Contents

v	Preface
vi	Acknowledgments
1	About AP
1	AP Course Development
1	Enrolling Students: Access, Opportunity, and Readiness
1	Offering AP Courses: The AP Course Audit
2	How the AP Program Is Developed
2	How AP Exams Are Scored
2	Using and Interpreting AP Scores
4	AP Classroom, Digital Activation, and AP Digital Portfolio
4	AP Classroom
4	Digital Activation
5	AP Digital Portfolio
5	Digital Submission for AP Capstone
6	About the AP Capstone™ Program
6	Research Base
7	The AP Capstone Diploma™ and AP Seminar and Research Certificate™
8	AP Capstone Pedagogical Framework
8	Overview of the Pedagogical Framework
9	AP Capstone Reasoning Processes
9	AP Research Course Transferable Skills and Proficiencies
10	AP Research Course Description
11	AP Research Curricular Requirements
12	AP Research Curriculum Framework
12	Overview of the Curriculum Framework
13	Big Idea 1: Question and Explore
19	Big Idea 2: Understand and Analyze
22	Big Idea 3: Evaluate Multiple Perspectives
23	Big Idea 4: Synthesize Ideas
27	Big Idea 5: Team, Transform, and Transmit
33	AP Research Instructional Approaches
33	Organizing the Course
37	Teaching the Skills
41	Formative Assessments
43	Selecting and Accessing Resources
43	AP Capstone™ Policy on Plagiarism and Falsification or Fabrication of Information
43	AP Capstone Policy on Use of Generative Artificial Intelligence (AI)
46	Engaging Community Members
46	Reviewing Student Research Proposals for Ethical Considerations

47	Participating in External Research Presentations and Competition Platforms
48	Preparing the Process and Reflection Portfolio (PREP)
50	AP Research Assessment Overview
50	AP Research Through-Course Performance Task
54	Role of the Teacher in Performance Tasks
55	Role of Expert Advisers in the Academic Paper
56	Reproducibles for Students
57	Inquiry Proposal Form
59	AP Research Performance Task: Academic Paper and Presentation and Oral Defense
59	Task Overview
59	Task Directions (Proposal Process, Academic Paper, Presentation and Oral Defense)
62	Oral Defense Questions
63	Role of the Teacher in Performance Tasks
65	Role of Expert Advisers in the Academic Paper
66	AP Capstone™ Policy on Plagiarism and Falsification or Fabrication of Information
67	AP Capstone Policy on Use of Generative Artificial Intelligence (AI)
67	Definition of Generative AI in AP Capstone Courses
67	Policy on Acceptable Generative AI Use in AP Capstone Courses
70	Required Checkpoints and Affirmations
71	AP Capstone Tips for Students
72	AP Research Glossary
74	About the Appendixes
75	Appendix A: AP Research: QUEST Framework Essential Questions
76	Appendix B: AP Research Timeline

Preface

This version of the *AP Research Course and Exam Description* is effective beginning in fall 2024.

Acknowledgments

College Board would like to acknowledge the following committee members and reviewers for their assistance with and commitment to the development of this curriculum and assessment. All individuals and their affiliations listed were current as of 2014.

Members of the AP Research Curriculum and Assessment Development Committee

Michael Dorff, Brigham Young University, Provo, UT
Liz Dawes Duraisingh, Harvard Graduate School of Education, Cambridge, MA
Greg Henkelman, Strathcona High School, Edmonton, CN
Ivonne Chand O'Neal, The John F. Kennedy Center for the Performing Arts, Washington, DC
Lynnette Overby, University of Delaware, Newark, DE
Kenneth Sacks, Brown University, Providence, RI
Jenny Olin Shanahan, Bridgewater State University, Bridgewater, MA
Kelly Stromberg, North Central High School, Spokane, WA
Gregory Taylor, Purchase College, SUNY, Purchase, NY
Matthew Krain, The College of Wooster, Wooster, OH

Members of the AP Research Curriculum Review Committee

Whitney Arnold, University of California Los Angeles, Los Angeles, CA
Michael Dorff, Brigham Young University, Provo, UT
Liz Dawes Duraisingh, Harvard Graduate School of Education, Cambridge, MA
Greg Henkelman, Strathcona High School, Edmonton, CN
Dave Hodul, Bishop O'Dowd High School, Oakland, CA
Carmen Martinet, Barbara Goleman Senior High School, Miami Lakes, FL
Ivonne Chand O'Neal, The John F. Kennedy Center for the Performing Arts, Washington, DC
Brian O'Neal, Montgomery College, Rockville, MD
Sara Orel, Truman State University, Kirksville, MO
Lynnette Overby, University of Delaware, Newark, DE
Kenneth Sacks, Brown University, Providence, RI
Jenny Olin Shanahan, Bridgewater State University, Bridgewater, MA
Kelly Stromberg, North Central High School, Spokane, WA
Gregory Taylor, Purchase College, SUNY, Purchase, NY
Nicole Wallack, Columbia University, New York, NY
Gregory Young, Montana State University, Bozeman, MT

AP Capstone Curriculum and Assessment Development Team

Rachel Bettley Nunez, Senior Director, AP Capstone Curriculum Development
Edward Biedermann, Executive Director, AP Outreach
Serena Magrogan, Senior Director, AP Science Curriculum and Content Development
Bianca Peart, Senior Director, AP Capstone Program

SPECIAL THANKS *John R. Williamson*

About AP

College Board's Advanced Placement® Program (AP®) enables willing and academically prepared students to pursue college-level studies—with the opportunity to earn college credit, advanced placement, or both—while still in high school. Through AP courses in 38 subjects, each culminating in a challenging exam, students learn to think critically, construct solid arguments, and see many sides of an issue—skills that prepare them for college and beyond. Taking AP courses demonstrates to college admission officers that students have sought the most challenging curriculum available to them, and research indicates that students who score a 3 or higher on an AP Exam typically experience greater academic success in college and are more likely to earn a college degree than non-AP students. Each AP teacher's syllabus is evaluated and approved by faculty from some of the nation's leading colleges and universities, and AP Exams are developed and scored by college faculty and experienced AP teachers. Most four-year colleges and universities in the United States grant credit, advanced placement, or both on the basis of successful AP Exam scores; more than 3,300 institutions worldwide annually receive AP scores.

AP Course Development

In an ongoing effort to maintain alignment with best practices in college-level learning, AP courses and exams emphasize challenging, research-based curricula aligned with higher education expectations.

Individual teachers are responsible for designing their own curriculum for AP courses, selecting appropriate college-level readings, assignments, and resources. This course and exam description presents the content and skills that are assessed in the AP Research course.

Enrolling Students: Access, Opportunity, and Readiness

The AP Program welcomes all students willing to challenge themselves with college-level coursework and career preparation. We strongly encourage educators

to invite students into AP classes, including students from ethnic, racial, socioeconomic, geographic, or other groups not broadly participating in a school's AP program. We believe that readiness for AP is attainable, and that educators can expand readiness by opening access to Pre-AP course work. We commit to support educators and communities in their efforts to make AP courses widely available, advancing students in their plans for college and careers.

Offering AP Courses: The AP Course Audit

The AP Program unequivocally supports the principle that each school implements its own curriculum that will enable students to develop the understandings and skills described in the course framework.

The AP Program has a short list of curricular and resource requirements that must be fulfilled before a school can label a course "Advanced Placement" or "AP." Schools wishing to offer AP courses must participate in the AP Course Audit, a process through which AP teachers' course materials are reviewed by college faculty. The AP Course Audit was created to provide teachers and administrators with clear guidelines on curricular and resource requirements for AP courses and to help colleges and universities validate courses marked "AP" on students' transcripts. This process ensures that AP teachers' courses meet or exceed the curricular and resource expectations that college and secondary school faculty have established for college-level courses.

The AP Course Audit form is submitted by the AP teacher and the school principal (or designated administrator) to confirm awareness and understanding of the curricular and resource requirements. A syllabus or course outline, detailing how course requirements are met, is submitted by the AP teacher for review by college faculty.

Please visit the [AP Course Audit](#) website for more information to support the preparation and submission of materials for the AP Course Audit.

How the AP Program Is Developed

The scope of content for an AP course and exam is derived from an analysis of hundreds of syllabi and course offerings of colleges and universities. Using this research and data, a committee of college faculty and expert AP teachers work within the scope of the corresponding college course to articulate what students should know and be able to do upon the completion of the AP course. The resulting course framework is the heart of this course and exam description and serves as a blueprint of the content and skills that can appear on an AP Exam.

The AP Test Development Committees are responsible for developing each AP Exam, ensuring the exam questions are aligned to the course framework. The AP Exam development process is a multiyear endeavor; all AP Exams undergo extensive review, revision, piloting, and analysis to ensure that questions are accurate, fair, and valid, and that there is an appropriate spread of difficulty across the questions.

Committee members are selected to represent a variety of perspectives and institutions (public and private, small and large schools and colleges), and a range of gender, racial/ethnic, and regional groups. A list of each subject's current AP Test Development Committee members is available on [AP Central®](#).

Throughout AP course and exam development, College Board gathers feedback from various stakeholders in both secondary schools and higher education institutions. This feedback is carefully considered to ensure that AP courses and exams are able to provide students with a college-level learning experience and the opportunity to demonstrate their qualifications for advanced placement or college credit.

How AP Exams Are Scored

Please note: The information below is a general overview of how AP Exams are scored. For course specific information, please visit [apcentral.collegeboard.org/courses](#).

The exam scoring process, like the course and exam development process, relies on the expertise of both AP teachers and college faculty. While multiple-choice questions are scored by machine, the free-response questions and through-course performance assessments, as applicable, are scored by thousands of college faculty and expert AP teachers. Most are scored at the annual AP Reading, while a small

portion is scored online. All AP Readers are thoroughly trained, and their work is monitored throughout the Reading for fairness and consistency. In each subject, a highly respected college faculty member serves as Chief Faculty Consultant and, with the help of AP Readers in leadership positions, maintains the accuracy of the scoring standards. Scores on the free-response questions and performance assessments are weighted and combined with the results of the computer-scored multiple-choice questions, and this raw score is converted into a composite AP score on a 1–5 scale.

AP Exams are **not** norm-referenced or graded on a curve. Instead, they are criterion-referenced, which means that every student who meets the criteria for an AP score of 2, 3, 4, or 5 will receive that score, no matter how many students that is. The criteria for the number of points students must earn on the AP Exam to receive scores of 3, 4, or 5—the scores that research consistently validates for credit and placement purposes—include:

- The number of points successful college students earn when their professors administer AP Exam questions to them.
- The number of points researchers have found to be predictive that an AP student will succeed when placed into a subsequent, higher-level college course.
- Achievement-level descriptions formulated by college faculty who review each AP Exam question.

Using and Interpreting AP Scores

The extensive work done by college faculty and AP teachers in the development of the course and exam and throughout the scoring process ensures that AP Exam scores accurately represent students' achievement in the equivalent college course. Frequent and regular research studies establish the validity of AP scores as follows:

AP Score	Credit Recommendation	College Grade Equivalent
5	Extremely well qualified	A
4	Well qualified	A–, B+, B
3	Qualified	B–, C+, C
2	Possibly qualified	n/a
1	No recommendation	n/a

While colleges and universities are responsible for setting their own credit and placement policies, most private colleges and universities award credit and/or advanced placement for AP scores of 3 or higher. Additionally, most states in the U.S. have adopted statewide credit policies that ensure college credit for scores of 3 or higher at public colleges and universities. To confirm a specific college's AP credit/placement policy, use the search engine available on the [AP Credit Policy Search](#) page.

BECOMING AN AP READER

Each June, thousands of AP teachers and college faculty members from around the world gather for seven days in multiple locations to evaluate and score the free-response sections of the AP Exams. Ninety-eight percent of surveyed educators who took part in the AP Reading say it was a positive experience.

There are many reasons to consider becoming an AP Reader, including opportunities to:

- **Bring positive changes to the classroom:** Surveys show that the vast majority of returning AP Readers—both high school and college educators—make improvements to the way they teach or score because of their experience at the AP Reading.

- **Gain in-depth understanding of AP Exam and AP scoring standards:** AP Readers gain exposure to the quality and depth of the responses from the entire pool of AP Exam takers, and thus are better able to assess their students' work in the classroom.
- **Receive compensation:** AP Readers are compensated for their work during the Reading. Expenses, lodging, and meals are covered for Readers who travel.
- **Score from home:** AP Readers have online distributed scoring opportunities for certain subjects. Check the [AP Reader](#) site for details.
- **Earn Continuing Education Units (CEUs):** AP Readers earn professional development hours and CEUs that can be applied to PD requirements by states, districts, and schools.

How to Apply

Visit the [Become an AP Reader](#) site for eligibility requirements and to start the application process.

AP Classroom, Digital Activation, and AP Digital Portfolio

AP Classroom

AP Classroom is a dedicated online platform designed to support teachers and students throughout their AP experience. The platform provides a variety of powerful resources and tools to provide yearlong support to teachers and students.

REQUIRED ONLINE SCORING TRAINING

Each year, AP Capstone teachers must take and pass certification tests in order to submit scores for the presentation components of the performance tasks. This annual training is found in the Professional Learning section of AP Classroom. Optional training modules are also available for other components of the assessment.

Digital Activation

AP teachers, students and coordinators must complete the digital activation process at the start of the school year, which provides access to all AP resources and gathers students' exam registration information online.

While the digital activation process takes a short time for teachers, students, and AP Coordinators to complete, overall it helps save time and provides the following additional benefits:

- **Access to AP resources and supports:** Teachers have access to resources specifically designed to support instruction throughout the school year as soon as activation is complete.
- **Student registration labels:** For each student included in an exam order, schools will receive a set of personalized AP ID registration labels, which replaces the AP student pack. The AP ID connects a student's exam materials with the registration information they provided during digital activation, eliminating the need for preadministration sessions and reducing time spent bubbling on exam day.
- **Targeted Instructional Planning Reports:** AP teachers will get Instructional Planning Reports (IPRs) that include data on each of their class sections automatically rather than relying on special codes optionally bubbled in on exam day.

Note: New AP Capstone teachers must attend required summer professional development and have their AP Course Audit form approved in order to start the digital activation process and gain access to AP Classroom and the AP Digital Portfolio.

AP Digital Portfolio

The deadline for all AP Capstone students to submit written performance tasks as final in the **AP Digital Portfolio** is **April 30 at 11:59 p.m. ET**. Teachers must review final student submissions, score student presentations, and affirm to authenticity in the digital portfolio by **May 10 at 11:59 p.m. ET**. These tasks must be completed by the deadline in order for student work to be sent to College Board for scoring.

Students' submitted performance tasks will be sent for scoring only if the AP coordinator has ordered an AP Seminar or AP Research Exam for them. When students enroll in an AP Seminar or AP Research class section as part of the digital activation process, their enrollment will automatically carry over to the AP Digital Portfolio.

Full instructions for navigating the AP Digital Portfolio are available in the AP Capstone **teacher** and **student** user guides found on AP Central as well as in the Help section within the AP Digital Portfolio.

Digital Submission for AP Capstone

AP Capstone teachers, students, and AP coordinators interact with the AP Digital Portfolio throughout the school year. The diagram below illustrates the roles and major tasks in the process.

Digital Submission for AP Capstone

■ Completed in My AP ■ Completed in AP Digital Portfolio

- 1 **AP coordinator or AP teacher** signs in to myap.collegeboard.org at the start of school year and creates AP Seminar and AP Research class sections. If applicable, the AP coordinator notifies teachers when class sections have been created.
- 2 **Teachers** sign in to myap.collegeboard.org and get the join code for each class section they teach to distribute to students during class.
- 3 **Students** sign in to myap.collegeboard.org with College Board login information and enroll in an AP Seminar or AP Research class section using the join code provided by their teacher or AP coordinator. If instructed to do so by the AP coordinator, students also indicate their exam registration in My AP.
- 4 **AP coordinator** submits the exam order for all students included in the exam roster in AP Registration and Ordering.
- 5 **Teacher** creates AP Seminar student teams for team assignments.
- 6 **Teacher** distributes College Board–provided source material to AP Seminar students.
- 7 **Students** submit written performance tasks as final in the AP Digital Portfolio no later than April 30 at 11:59 p.m. ET or an earlier deadline set by their teacher. Students will not be able to complete submissions after April 30 at 11:59 p.m. ET.
- 8 **Teacher** submits scores for student presentations and complete affirmations for required checkpoints in the AP Digital Portfolio by May 10 at 11:59 p.m. ET.
- 9 **AP coordinator** verifies that all students have submitted their written performance task components as final in the AP Digital Portfolio by April 30 at 11:59 p.m. ET and that teachers have submitted scores for student presentations and complete affirmations for required checkpoints in the digital portfolio by May 10 at 11:59 p.m. ET.
- 10 Performance tasks and scores for all students that the AP coordinator has ordered an exam for will be automatically submitted to **the AP Program** at the deadline.

About the AP Capstone™ Program

AP Capstone™ is an innovative diploma program from College Board that equips students with the independent research, collaborative teamwork, and communication skills that are increasingly valued by colleges. AP Capstone is built on the foundation of two AP® courses—**AP Seminar** and **AP Research**—and is designed to complement and enhance the in-depth, discipline-specific study experienced in other AP courses.

In AP Seminar, students investigate real-world issues from multiple perspectives, gathering and analyzing information from various sources in order to develop credible and valid evidence-based arguments. AP Seminar is a prerequisite for AP Research. Completing AP Seminar and all its required assessment components is necessary for students to develop the skills to be successful in AP Research. In AP Research, students cultivate the skills and discipline necessary to conduct independent research and inquiry in order to produce and defend their scholarly work.

The AP Capstone program aims to empower students by:

- engaging them with rigorous college-level curricula focused on the skills necessary for successful college completion;
- extending their abilities to synthesize information from multiple perspectives and apply skills in new situations and cross-curricular contexts;
- enabling them to collect and analyze information with accuracy and precision;
- cultivating their abilities to craft, communicate, and defend evidence-based arguments; and
- providing opportunities for them to practice disciplined and scholarly research skills while exploring relevant topics that appeal to their interests and curiosity.

Research Base

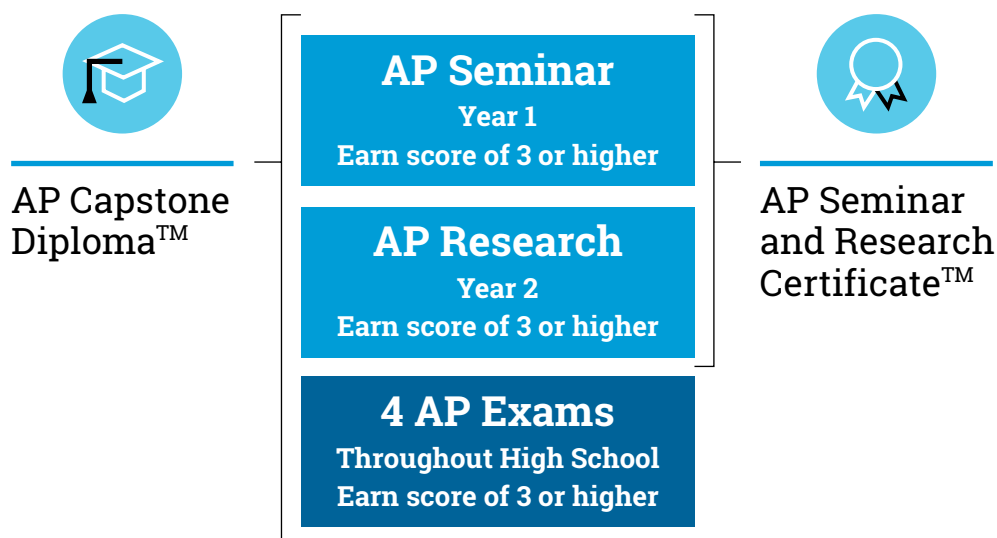
The big ideas and learning objectives in the AP Capstone program reflect the core academic skills needed for college, career, and life readiness identified by leading educational organizations and College Board membership, including the following:

- The American Association of Colleges and Universities (AAC&U), *College Learning for the New Global Century, Essential Learning Outcomes*
- Advanced Placement Program, skills and practices identified in AP courses
- The Partnership for 21st Century Skills (P21), *A Framework for 21st Century Learning*
- Association of College and Research Libraries, *Information Literacy Competency Standards for Higher Education*
- Council of Writing Program Administrators, *Framework for Success in Postsecondary Writing*

The AP Capstone Diploma™ and AP Seminar and Research Certificate™

Students who earn scores of 3 or higher in AP Seminar and AP Research and on four additional AP Exams of their choosing will receive the AP Capstone Diploma™.

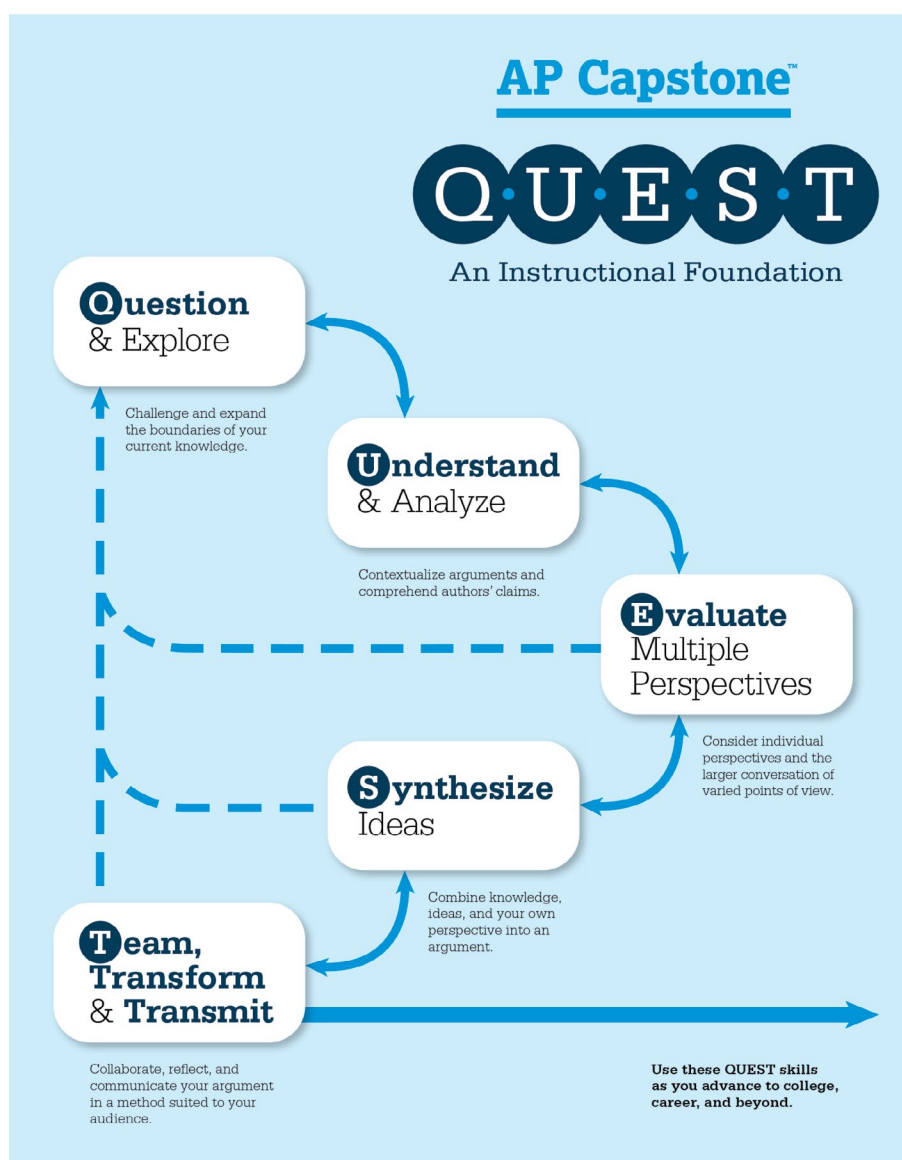
Students who earn scores of 3 or higher in AP Seminar and AP Research but not on four additional AP Exams will receive the AP Seminar and Research Certificate™.



AP Capstone Pedagogical Framework

Overview of the Pedagogical Framework

Throughout the program, students consider and evaluate multiple points of view to develop their own perspectives on complex issues and topics through inquiry and investigation. The AP Capstone program provides students with a framework that allows them to develop, practice, and hone their critical and creative thinking skills as they make connections between various issues and their own lives. Teachers should help students understand that this process is recursive, not linear. The recursive nature of this process allows students to go back and forth between the different stages of inquiry as they encounter new information.



AP Capstone Reasoning Processes

The AP Capstone program allows students to develop and practice reasoning processes that help them to make intentional, strategic decisions. It is important for teachers to understand these reasoning processes, which are embedded within the learning objectives:

- **Situating** — being aware of the context of one’s own as well as others’ perspectives, realizing that individual bias can lead to assumptions;
- **Choosing** — making intentional and purposeful choices, realizing that choices have both intended and unintended consequences;
- **Defending** — being able to explain and justify personal choices, logic, line of reasoning, and conclusions; and
- **Connecting** — seeing intersections within and/or across concepts, disciplines, and cultures.

AP Research Course Transferable Skills and Proficiencies

The AP Capstone reasoning processes are also embedded in the AP Research course transferable skills and proficiencies. The transferable skills and proficiencies are high-level descriptions of the understanding, knowledge, and skills that students should be able to apply in novel situations long after completing the AP Research course.

Transferable Skills	Produce Scholarly Work	Employ Research Practices	Analyze Sources and Evidence	Understand Context and Perspective	Communicate (interpersonal and intrapersonal)
Reasoning Processes	<i>Choose</i> <i>Connect</i> <i>Defend</i>	<i>Choose</i>	<i>Situate</i> <i>Choose</i>	<i>Situate</i> <i>Connect</i>	<i>Situate</i> <i>Choose</i> <i>Defend</i>
Proficiencies	ESA Establish Argument Demonstrating the significance of one’s research by explaining the rationale behind the choices made in the research process and logically connecting the findings to one’s conclusions or new understandings SUE Select and Use Evidence Evaluating the significance of the findings, results, or product to the purpose or goal of one’s inquiry and strategically choosing such evidence to effectively support claims	RED Research Design Narrowing a focus of inquiry and identifying an aligned, ethical, feasible approach or method to accomplish the purpose of the research question and/or project goal	UAA Understand and Analyze Argument Analyzing evidence for what is known about one’s topic of inquiry to further narrow (focus) and situate one’s research question or project goal ESE Evaluate Sources and Evidence Evaluating the credibility, relevance, and significance of sources and evidence to the choices made in the inquiry process	UAC Understand and Analyze Context Contextualizing the purpose and significance of one’s topic of inquiry within a broader field or discipline	ENA Engage Audience Choosing and employing effective written and oral communication techniques, considering audience, context and purpose to convey and defend conclusions or new understandings APC Apply Conventions Choosing and consistently applying an appropriate citation style and effective conventions of writing REF Reflect Identifying challenges, successes, and moments of insight throughout one’s inquiry, which transformed one’s own thinking and reasoning

AP Research Course Description

(Note: AP Seminar is a prerequisite for AP Research. Completing AP Seminar and all its required assessment components is necessary for students to develop the skills to be successful in AP Research.)

AP Research, the second course in the AP Capstone experience, allows students to deeply explore an academic topic, problem, issue, or idea of individual interest. Students design, plan, and implement a yearlong investigation to address a research question. Through this inquiry, they further the skills they acquired in the AP Seminar course by learning research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing information. Students reflect on their skill development, document their processes, and curate the artifacts of their scholarly work through a process and reflection portfolio. The course culminates in an academic paper of 4,000–5,000 words (accompanied by a performance, exhibit, or product where applicable) and a presentation with an oral defense.

AP Research Curricular Requirements

The curricular requirements are the core elements of an AP course. The curriculum framework and supporting documents provided during professional development serve as resources to assist teachers in determining the appropriate level of evidence to include within their syllabi to meet or exceed the requirements. (All AP Research teachers must attend College Board AP Research intensive training prior to their first year of teaching the AP Research course.)

Evidence of the following curricular requirements should be included in the course syllabus developed by the teacher and submitted to College Board for review and approval.

- Students develop and apply discrete skills identified in the learning objectives of the enduring understandings within the following five big ideas:
 - › Question and Explore
 - › Understand and Analyze
 - › Evaluate Multiple Perspectives
 - › Synthesize Ideas
 - › Team, Transform, and Transmit
- Students develop an understanding of ethical research practices and the AP Capstone™ Policy on Plagiarism and Falsification or Fabrication of Information.
- In the classroom and independently (while possibly consulting any expert advisers), students learn and employ research and inquiry methods to develop, manage, and conduct an in-depth investigation of an area of personal interest, culminating in an academic paper of 4,000–5,000 words that includes the following elements:
 - › Introduction and Literature Review
 - › Method, Process, or Approach
 - › Results, Product, or Findings
 - › Discussion, Analysis, and/or Evaluation
 - › Conclusion and Future Directions
 - › Bibliography
- Using a process and reflection portfolio (PREP), students document their inquiry processes, communication with their teachers and any expert advisers as needed, and reflections on their thought processes. Students have regular work-in-progress interviews with their teachers to review their progress and to receive feedback on their scholarly work. Failure to document authentic work and inquiry process in the PREP throughout the year and to engage in regular work-in-progress checks with the student's teacher will result in a score of zero on the Academic Paper for this course.
- Students develop and deliver a presentation (using an appropriate medium) and an oral defense to a panel on their research processes, method, and findings.

AP Research Curriculum Framework

Overview of the Curriculum Framework

Based on the Understanding by Design (Wiggins and McTighe) model, this curriculum framework is intended to provide a clear and detailed description of the course requirements necessary for student success. This conceptualization will guide the development and organization of learning outcomes from general to specific, resulting in focused statements about content knowledge and skills needed for success in the course. The curriculum framework contains the following structural components:

- The course is organized around five **big ideas**. Tied to each big idea are several **essential questions**. These are open-ended questions that encourage students to think deeply about a topic, ask additional questions and investigate solutions, and develop the deeper conceptual understanding that the course seeks to foster. Teachers should communicate to students that these big ideas are not meant to represent a linear progression of research processes but instead are a recursive set of ideas and skills that the student researcher will strengthen by the end of the research process.
- Within each big idea are several **enduring understandings**. These are the long-term takeaways related to the big ideas that a student should have after exploring the content and skills. These understandings are expressed as generalizations that specify what students will come to understand about the key concepts in the course. Enduring understandings are numbered to correspond to each big idea. The enduring understandings for the AP Seminar and AP Research courses are the same.
- Linked to each enduring understanding are the corresponding **learning objectives**. The learning objectives articulate what students need to be able to do in order to develop the enduring understandings. The learning objectives will become targets of assessment for the course. Learning objectives are numbered to correspond with the appropriate big ideas and enduring understandings.
 - › Learning objectives in italics with a blue shaded background represent those from the AP Seminar course that are not assessed in the AP Research course.
 - › Learning objectives with a green shaded background are those that do carry over from the AP Seminar course and should be used to develop instructional strategies and/or will be formally assessed by the summative assessment task components of the AP Research course.
 - › Learning objectives without a shaded background are unique to the AP Research course.
- For each of the learning objectives, **essential knowledge** statements describe the facts and basic concepts that a student should know and be able to recall in order to demonstrate mastery of the learning objective. Essential knowledge components are numbered to correspond with the appropriate big ideas, enduring understandings, and learning objectives.
 - › Essential knowledge statements in italics with a blue shaded background are those from the AP Seminar course that do not carry over into the AP Research course.
 - › Essential knowledge statements with a green shaded background are those that do carry over from the AP Seminar course into the AP Research course.
 - › Essential knowledge statements without a shaded background are unique to the AP Research course.

Big Idea 1: Question and Explore

Inquiry and investigation begin when students encounter information about ideas, complex issues, and problems that stimulates their intellectual curiosity. They then continue the research process by developing a critical question about one or more of those complex issues or ideas. Seeking answers to such questions requires exploration of numerous, often competing perspectives; the context surrounding those perspectives; and the reliability and credibility of the perspectives. Through this exploration, students begin to develop their own perspectives, rather than simply accepting those of others. They consider the purpose of their research — what is supposed to be achieved and why. Ideally, they also develop additional questions that lead to further inquiry. The intrinsic value of asking and answering questions cannot be overstated. Giving students the opportunity to dig deeper and feed their curiosity makes for meaningful discoveries and discussions.

ESSENTIAL QUESTIONS

- What do I want to know, learn, or understand?
- What questions have yet to be asked?
- How does my research question shape how I go about trying to answer it?
- How does my project goal shape the research or inquiry I engage in to achieve it?
- What information/evidence do I need to answer my research question?

Enduring Understandings (Students will understand that . . .)	Learning Objectives (Students will be skilled at . . .)	Essential Knowledge (Students will know that . . .)
EU 1.1: Personal interest and intellectual curiosity inspire investigation of topics or issues that may or may not be clearly defined. A well-crafted investigation explores the complexity of an issue or topic. Further inquiry can lead to unexpected conclusions , resolutions, innovations, or solutions .	LO 1.1A: Contextualizing and identifying the complexities of a problem or issue.	EK 1.1A1: Examining the perspectives and ideas of others often leads to questions for further investigation. Inquiry begins with narrowing scope of interest, identifying a problem or issue and its origins within that scope, and situating the problem or issue in a larger context .
	LO 1.1B: Posing questions and seeking out answers that reflect multiple, divergent, or contradictory perspectives.	EK 1.1B1: Effective research questions lead to an examination taking into account the complexity of a problem or issue. EK 1.1B2: The inquiry process allows one to draw upon curiosity and imagination to engage with ideas or explore approaches to complex issues.

Note: The first time words from the glossary are used in the curriculum framework tables, they appear in bold blue text. The glossary begins on page 64.

Enduring Understandings (Students will understand that . . .)	Learning Objectives (Students will be skilled at . . .)	Essential Knowledge (Students will know that . . .)
<p>EU 1.1: Personal interest and intellectual curiosity inspire investigation of topics or issues that may or may not be clearly defined. A well-crafted investigation explores the complexity of an issue or topic. Further inquiry can lead to unexpected conclusions, resolutions, innovations, or solutions.</p> <p><i>(continued)</i></p>	<p>LO 1.1C: Identifying a topic of inquiry.</p>	<p>EK 1.1C1: Topics of inquiry may come from personal interest, passion for a discipline/field, desire to better understand a topic, or desire to address an issue in the world.</p> <p>EK 1.1C2: The inquiry process involves exploring the knowledge base associated with the topic of interest, including a variety of perspectives, and adjusting the scope of the topic to the parameters, requirements, and resources available for the project.</p> <p>EK 1.1C3: Inquiry allows for the discovery of connections that can increase curiosity or understanding and lead to further questions.</p>
	<p>LO 1.1D: Articulating the purpose and significance of the scholarly inquiry.</p>	<p>EK 1.1D1: Scholars explore, explain, and create.</p> <p>EK 1.1D2: The purpose of scholarly inquiry is to address various kinds of problems (e.g., practical, theoretical, interpretive, aesthetic) and/or corroborate, challenge, or extend an existing idea.</p> <p>EK 1.1D3: Scholarly inquiry should be situated within a broader understanding of the scholarly community and of importance and relevance to that community.</p>
	<p>LO 1.1E: Developing and revising a focused research question/project goal.</p>	<p>EK 1.1E1: A research question/project goal emerges from the scholar's purpose (i.e., to explore, explain, and create).</p> <p>EK 1.1E2: A research question/project goal often requires multiple revisions to ensure it is appropriate in terms of scope and feasibility (time, resources).</p>
<p>EU 1.2: Strengthening understanding of a concept or issue requires questioning existing ideas, using what is known to discover what is not known, and making connections to prior knowledge.</p>	<p>LO 1.2A: Retrieving, questioning, organizing, and using prior knowledge about a topic.</p>	<p>EK 1.2A1: Understanding comes not only through collection of information but also from a variety of other factors (e.g., experience, external sources, cultural context, assumptions).</p> <p>EK 1.2A2: A variety of strategies (e.g., brainstorming, concept mapping, prewriting, exploration of space, drafting) can be used to illustrate, organize, and connect ideas.</p> <p>EK 1.2A3: Inquiry confirms or challenges one's existing understandings, assumptions, beliefs, and/or knowledge.</p>

Enduring Understandings (Students will understand that . . .)	Learning Objectives (Students will be skilled at . . .)	Essential Knowledge (Students will know that . . .)
<p>EU 1.3: The investigative process is aided by the effective organization, management, and selection of resources and information. Appropriate technologies and tools enable the scholar to become more efficient, productive, and credible.</p>	<p>LO 1.3A: Accessing and managing information using effective strategies.</p>	<p>EK 1.3A1: Information used to address a problem may come from various secondary sources (e.g., articles, other studies, analyses, reports) and/or primary sources (e.g., original texts and works, material culture, or personally collected data such as from experiments, surveys, questionnaires, interviews, observations, personal narratives).</p> <p>EK 1.3A2: Online databases (e.g., EBSCO, ProQuest, JSTOR, Google Scholar) and libraries catalog and house secondary and some primary sources.</p> <p>EK 1.3A3: Advanced search tools, Boolean logic, and key words allow scholars to refine, focus, and/or limit their searches based on a variety of factors (e.g., date, peer-review status, type of publication).</p> <p>EK 1.3A4: Consulting the bibliographies of other sources may provide additional ideas or resources.</p> <p>EK 1.3A5: Social media may be used as a potential source of information, but an understanding of its limitations is necessary to maintain credibility.</p> <p>EK 1.3A6: Software (e.g., Microsoft Word, EndNote) and online tools (e.g., citation generators, WorldCat) are used by scholars to manage and catalog sources and produce bibliographies.</p> <p>EK 1.3A7: Software and online tools (e.g., SurveyMonkey, SPSS) can be used to survey participants and analyze large data sets.</p>
<p>EU 1.4: The relevance and credibility of the source of information is determined by the context of its use.</p>	<p>LO 1.4A: Evaluating the relevance and credibility of the source of information and data in relation to the inquiry.</p>	<p>EK 1.4A1: The scope and purpose of one's research and the credibility of sources affects the generalizability and the reliability of the conclusions.</p> <p>EK 1.4A2: Credibility of evidence depends on use of sources and data that are relevant and reliable (current, authoritative).</p>

Enduring Understandings (Students will understand that . . .)	Learning Objectives (Students will be skilled at . . .)	Essential Knowledge (Students will know that . . .)
<p>EU 1.4: The relevance and credibility of the source of information is determined by the context of its use.</p> <p><i>(continued)</i></p>	<p>LO 1.4A: Evaluating the relevance and credibility of the source of information and data in relation to the inquiry.</p> <p><i>(continued)</i></p>	<p>EK 1.4A3: Determining the credibility of a source requires considering and evaluating the reputation and credentials of the author, publisher, site owner, and/or sponsor; understanding and evaluating the author's perspective and research methods; and considering how others respond to their work. Scholarly articles are often peer-reviewed, meaning the research has been reviewed and accepted by disciplinary experts.</p> <p>EK 1.4A4: When gathering data on individuals' behaviors, attitudes, and preferences, the accuracy and validity of such data depends on the honesty, memory, and reliability of the respondents and/or observers as well as the design of the data collection instrument.</p>
<p>EU 1.5: There are multiple ways to investigate questions, problems, and issues. Methods should be aligned with the purpose of the inquiry.</p>	<p>LO 1.5A: <i>Identifying the information needed for the context of the inquiry.</i></p> <p>LO 1.5B: Designing, planning, and implementing a scholarly inquiry.</p>	<p>EK 1.5A1: <i>The way the problem is posed, situated, framed, or contextualized will guide the inquiry process and influence the type of information needed and appropriate method of gathering it.</i></p> <p>EK 1.5B1: Methods for data collection, analysis, innovation, and/or interpretation should be aligned with the research question/project goal.</p> <p>EK 1.5B2: Methods of inquiry may include research methods (e.g., qualitative, quantitative, or mixed) or artistic processes (e.g., generating, conceptualizing, testing, and then refining aesthetic approaches).</p> <p>EK 1.5B3: Throughout the process of determining scope and feasibility, the scholar may, where appropriate, adjust the course of inquiry and/or develop different tools, methods, and processes.</p> <p>EK 1.5B4: Artistic processes can include elements of research methods as well as the exploration and shaping/reshaping of media and form through activities such as workshopping, storyboarding, composing, choreographing, staging, and model-making.</p>

Enduring Understandings (Students will understand that . . .)	Learning Objectives (Students will be skilled at . . .)	Essential Knowledge (Students will know that . . .)
<p>EU 1.5: There are multiple ways to investigate questions, problems, and issues. Methods should be aligned with the purpose of the inquiry.</p> <p><i>(continued)</i></p>	<p>LO 1.5B: Designing, planning, and implementing a scholarly inquiry.</p> <p><i>(continued)</i></p>	<p>EK 1.5B5: Based on the research question or project goal, methods of data or information collection may be qualitative (e.g., open-ended survey questions, interviews, observational notes, interpretation of texts); may be quantitative (e.g., precise measurements, modeling, using structured and validated data collection instruments and procedures); or could include a combination of both qualitative and quantitative (mixed).</p> <p>EK 1.5B6: Scholars analyze data or information in a variety of ways appropriate to the inquiry.</p> <p>EK 1.5B7: Scholars identify reasons for choosing a sample of information, a population, or artifacts and understand the limits of the inferences or conclusions made based on the sample chosen.</p> <p>EK 1.5B8: Descriptive or inferential statistics can be used to display and/or analyze data.</p> <p>EK 1.5B9: Scholars often organize and categorize (or code) data/information to identify patterns or themes.</p> <p>EK 1.5B10: Scholars can combine qualitative and quantitative data/information to triangulate and corroborate trends, patterns, correlations, and/or themes.</p>
	<p>LO 1.5C: Demonstrating perseverance through setting goals, managing time, and working independently on a long-term project.</p>	<p>EK 1.5C1: Scholars carefully plan methods of inquiry, analysis, and other feasible research activities, taking into account deadlines, priorities, risks, setbacks, and the availability of others.</p> <p>EK 1.5C2: Scholars learn that setbacks are inevitable; they need to focus on the essential goals of the inquiry or project and be prepared to try alternate approaches or look to other disciplines in order to achieve them.</p> <p>EK 1.5C3: Experts in the field may provide guidance and/or discipline-specific knowledge or perspective. Scholars must understand how to seek advice while maintaining self-sufficiency.</p>

Enduring Understandings (Students will understand that . . .)	Learning Objectives (Students will be skilled at . . .)	Essential Knowledge (Students will know that . . .)
<p>EU 1.5: There are multiple ways to investigate questions, problems, and issues. Methods should be aligned with the purpose of the inquiry.</p> <p><i>(continued)</i></p>	<p>LO 1.5D: Employing ethical research practices.</p>	<p>EK 1.5D1: Scholars have ethical and moral responsibilities when they conduct research.</p> <p>EK 1.5D2: There are laws, rules, and guidelines that govern the conduct of researchers, in particular when studies involve humans and animals. Accordingly, scholars gain approval to conduct research with humans through an institutional review board (IRB).</p> <p>EK 1.5D3: There are copyright and patent laws and guidelines that govern the use and reproduction of others' instruments, work, personal information, and intellectual property.</p>

Big Idea 2: Understand and Analyze

Developing understanding starts with comprehension of the concepts and perspectives under examination. Being able to summarize by identifying and explaining the salient ideas in a text is foundational. When students summarize and explain an author's perspective to others, they are building understanding. Students must comprehend a perspective or argument in order to be able to analyze it. That analysis — including consideration of the author's point of view and purpose, the reasoning and details the author selects, develops, and conveys, and the way the author chooses to situate those details — in turn leads to greater understanding of the topic or concept being explored. Students evaluate the validity of an argument by examining the strength of the line of reasoning and the quality of the evidence the author uses. This level of understanding allows students to recognize the implications and predict the consequences of an argument.

ESSENTIAL QUESTIONS

- What strategies will help me comprehend a text?
- What is the main idea of the argument or artistic work and what reasoning does the author use to develop it?
- What biases may the author have that influence his or her perspective?
- Does this argument acknowledge other perspectives?
- How can I assess the quality or strength of others' research, products, or artistic works?

Enduring Understandings (Students will understand that . . .)	Learning Objectives (Students will be skilled at . . .)	Essential Knowledge (Students will know that . . .)
EU 2.1: Authors express their ideas, perspectives, and/or arguments through their works. The first step in evaluating an author's perspective or argument is to comprehend it. Such comprehension requires reading, viewing, listening, and thinking critically.	LO 2.1A: <i>Employing appropriate reading strategies and reading critically for a specific purpose.</i>	EK 2.1A1: <i>Reading critically means reading closely to identify the main idea, tone, assumptions, context, perspective, line of reasoning, and evidence used.</i> EK 2.1A2: <i>Strategies active readers use to preview and prioritize a written text include skimming, scanning, rereading, and questioning.</i> EK 2.1A3: <i>Strategies active readers use to make meaning from texts include annotating, note-taking, highlighting, and reading aloud.</i> EK 2.1A4: <i>Perspectives are shared through written, spoken, visual, or performance texts. A perspective includes the writer's attitude/ tone regarding the subject and is expressed through an argument.</i>
	LO 2.1B: Summarizing and explaining a text's main idea or aim while avoiding faulty generalizations and oversimplification.	EK 2.1B1: The main idea of an argument is often expressed in the thesis statement, claim , or conclusion, or implied throughout a work. EK 2.1B2: Artistic works (e.g., painting, film, music, dance) convey a perspective. Analysis of a work's context, subject, structure, style, and aesthetic is critical to understanding its aims.

Enduring Understandings (Students will understand that . . .)	Learning Objectives (Students will be skilled at . . .)	Essential Knowledge (Students will know that . . .)
<p>EU 2.2: Authors choose evidence to shape and support their arguments. Individuals evaluate the line of reasoning and evidence to determine to what extent they believe or accept an argument.</p>	<p>LO 2.2A: Explaining and analyzing the logic and line of reasoning of an argument.</p>	<p>EK 2.2A1: Authors use reasons to support their arguments. The line of reasoning is composed of one or more claims justified through evidence.</p> <p>EK 2.2A2: An argument's line of reasoning is organized based on the argument's purpose (e.g., to show causality, to define, to propose a solution).</p> <p>EK 2.2A3: Inductive reasoning uses specific observations and/or data points to identify trends, make generalizations, and draw conclusions. Deductive reasoning uses broad facts or generalizations to generate additional, more specific conclusions about a phenomenon.</p> <p>EK 2.2A4: A lack of understanding of the complexities of an argument (tone, implications, limitations, nuance, context) can lead to oversimplification and/or generalization.</p> <p>EK 2.2A5: Effective arguments acknowledge other arguments and/or respond to them with counterarguments (e.g., concession, refutation, rebuttal).</p>
	<p>LO 2.2B: Evaluating the relevance and credibility of evidence used to support an argument, taking context into consideration.</p>	<p>EK 2.2B1: An argument's context (time and purpose) and situation (in relation to other arguments) inform its interpretation.</p> <p>EK 2.2B2: Writers use qualitative and/or quantitative evidence (e.g., facts, data, observations, predictions, analogies, explanations, opinions) to support their claims. Evidence has varying degrees of validity.</p> <p>EK 2.2B3: Authors strategically include evidence to support their claims.</p> <p>EK 2.2B4: Writers appeal to (or possibly manipulate) readers through a variety of strategies and techniques (e.g., language, authority, qualifiers, fallacies, emphasis).</p> <p>EK 2.2B5: Evidence may be used to identify and explain relationships (comparative, causal, or correlational) and/or patterns and trends.</p>

Enduring Understandings (Students will understand that . . .)	Learning Objectives (Students will be skilled at . . .)	Essential Knowledge (Students will know that . . .)
EU 2.2: Authors choose evidence to shape and support their arguments. Individuals evaluate the line of reasoning and evidence to determine to what extent they believe or accept an argument. <i>(continued)</i>	LO 2.2B: Evaluating the relevance and credibility of evidence used to support an argument, taking context into consideration. <i>(continued)</i>	EK 2.2B6: Credibility is compromised when authors fail to acknowledge and/or consider the limitations of their conclusions, opposing views or perspectives, and/or their own biases .
	LO 2.2C: Evaluating the validity of an argument.	EK 2.2C1: <i>An argument is valid when there is logical alignment between the line of reasoning and the conclusion.</i> EK 2.2C2: Validity is most often achieved when the presented evidence is aligned with the conclusions. The strength of an argument depends upon an author acknowledging and/or considering the limitations of his or her conclusions, opposing views or perspectives, and/or his or her own biases. EK 2.2C3: Conclusions are contextual and their validity must be affirmed, qualified, or refuted.
	LO 2.2D: Evaluating and critiquing others' inquiries, studies, artistic works, and/or perspectives.	EK 2.2D1: Scholars analyze and evaluate others' studies and artistic works in terms of internal coherence and alignment of the purposes, goals, and methods of inquiry.
EU 2.3: Arguments have implications and consequences.	LO 2.3A: Connecting an argument to broader issues by examining the implications of the author's claim.	EK 2.3A1: The implications and consequences of arguments may be intended or unintended.
	LO 2.3B: Evaluating potential resolutions, conclusions, or solutions to problems or issues raised by an argument.	EK 2.3B1: Arguments are significant and have real-world impact because they can influence behavior (e.g., call one to action, suggest logical next steps).

Big Idea 3: Evaluate Multiple Perspectives

Understanding the complexity of an issue, idea, or problem requires students to compare and contrast different perspectives. These multiple perspectives, which may support, oppose, compete with, or otherwise vary from one another, come together to create the conversation on the issue. Students must consider the biases and assumptions behind those perspectives in order to evaluate their relevance and importance in the conversation. Evaluating multiple perspectives and arguments allows students to better understand the complexities of an issue or topic.

ESSENTIAL QUESTIONS

- How might others see a problem or issue differently?
- What patterns or trends can be identified among the arguments about this issue?
- What are the implications and/or consequences of accepting or rejecting a particular argument?
- How can I connect the multiple arguments? What other issues, questions, or topics do they relate to?
- How can I explain contradictions within or between arguments?
- From whose perspective is this information being presented, and how does that affect my evaluation?

Enduring Understandings (Students will understand that . . .)	Learning Objectives (Students will be skilled at . . .)	Essential Knowledge (Students will know that . . .)
EU 3.1: Different perspectives often lead to competing and alternative arguments. The complexity of an issue emerges when people bring these differing, multiple perspectives to the conversation.	LO 3.1A: Identifying, comparing, and interpreting multiple perspectives on or arguments about an issue.	<p>EK 3.1A1: An individual's perspective is influenced by his or her background (e.g., experiences, culture, education), assumptions, and worldview, as well as by external sources.</p> <p>EK 3.1A2: Perspectives are not always oppositional; they may be concurring, complementary, or competing.</p> <p>EK 3.1A3: Some ideas/ perspectives are ambiguous or not well defined. The process of identification and interpretation may not lead to a definitive answer.</p>
EU 3.2: Not all arguments are equal; some arguments are more credible/valid than others. Through evaluating others' arguments, one's own argument can be situated within a larger conversation.	LO 3.2A: Evaluating alternate, opposing, or competing perspectives or arguments, by considering their implications and limitations.	<p>EK 3.2A1: Critical thinkers are aware that some arguments may appeal to emotions, core values, personal biases and assumptions, and logic.</p> <p>EK 3.2A2: When evaluating multiple perspectives or arguments, consideration must be given to how one's own personal biases and assumptions can influence one's judgment.</p>

Big Idea 4: Synthesize Ideas

Once enough information is gathered and evaluated, students synthesize their accumulated knowledge, emerging ideas, and perspectives to form conclusions of their own. Students must consider other points of view but also analyze material to develop their own perspectives and scholarly works. The goal is for students to think critically about the information and then add to, not simply repeat, the ideas of others. In this way, students establish a unique, creative voice within the larger conversation.

ESSENTIAL QUESTIONS

- How do I connect and analyze the evidence in order to develop an argument and support a conclusion?
- Are there other conclusions I should consider?
- How does my scholarly work emerge from my perspective, design choices, or aesthetic rationale?
- How do I acknowledge and account for my own biases and assumptions?
- What is the most appropriate way to acknowledge and attribute the work of others that was used to support my argument? How do I ensure the conclusions I present are my own?

Enduring Understandings (Students will understand that . . .)	Learning Objectives (Students will be skilled at . . .)	Essential Knowledge (Students will know that . . .)
EU 4.1: Scholarly works convey perspectives and demonstrate effective reasoning that have been selected for the intended audience, purpose, and situation.	LO 4.1A: Formulating a well-reasoned argument, taking the complexities of the problem or issue into consideration.	<p>EK 4.1A1: Effective arguments use reason and evidence to convey a perspective, point of view, or some version of the truth that is stated or implied in the thesis and/or conclusion.</p> <p>EK 4.1A2: Effective arguments are supported and unified by carefully chosen and connected claims, reasons, and evidence.</p> <p>EK 4.1A3: Qualifiers place limits on how far a claim may be carried. Effective arguments acknowledge these limits, increasing credibility by reducing overgeneralization or oversimplification.</p> <p>EK 4.1A4: Effective arguments may acknowledge other arguments and/or respond to them with counterarguments (e.g., concession, refutation, rebuttal).</p> <p>EK 4.1A5: The line of reasoning is a clear, logical path leading the audience through the reasons to a conclusion.</p> <p>EK 4.1A6: The logic and reasoning of an argument may be deductive (claim followed by evidence) or inductive (evidence leads to a conclusion).</p>

Enduring Understandings (Students will understand that . . .)	Learning Objectives (Students will be skilled at . . .)	Essential Knowledge (Students will know that . . .)
<p>EU 4.1: Scholarly works convey perspectives and demonstrate effective reasoning that have been selected for the intended audience, purpose, and situation.</p> <p><i>(continued)</i></p>	<p>LO 4.1A: Formulating a well-reasoned argument, taking the complexities of the problem or issue into consideration.</p> <p><i>(continued)</i></p>	<p>EK 4.1A7: A line of reasoning is organized based on the argument's purpose (e.g., to show causality, to evaluate, to define, to propose a solution).</p> <p>EK 4.1A8: Claims and supporting evidence are arranged (e.g., spatially, chronologically, order of importance) to convey reasoning and relationship (e.g., comparative, causal, correlational).</p> <p>EK 4.1A9: The same argument may be organized, arranged, or supported in multiple ways depending on audience and context.</p> <p>EK 4.1A10: Whether developing an argument or conceptualizing an idea or work of art, scholars thoughtfully choose and implement a process aligned with the inquiry or project goal.</p> <p>EK 4.1A11: Scholars need to articulate their choices, even when those choices deliberately or inadvertently result in ambiguity or lack of clarity.</p> <p>EK 4.1A12: An aesthetic rationale is an argument in that it is a reasoned articulation of specific formal and stylistic choices made in the course of devising the artistic work.</p>
	<p>LO 4.1B: Selecting and consistently applying an appropriate disciplinary or interdisciplinary approach to form a scholarly argument or aesthetic rationale.</p>	<p>EK 4.1B1: Each discipline has its own conventions and ways of knowing, questioning, and communicating.</p> <p>EK 4.1B2: Scholars apply discipline-specific terminology in the analysis of scholarly works.</p> <p>EK 4.1B3: The different disciplines and associated ways of knowing and valuing information are discovered in part through engaging with discipline-specific foundational texts and works.</p> <p>EK 4.1B4: Disciplines may be broadly or narrowly defined. Disciplines can intersect or be combined to provide new understandings or perspectives.</p>

Enduring Understandings (Students will understand that . . .)	Learning Objectives (Students will be skilled at . . .)	Essential Knowledge (Students will know that . . .)
EU 4.2: Scholars responsibly and purposefully engage with the evidence to develop a compelling argument or aesthetic rationale.	LO 4.2A: Interpreting, using, and synthesizing qualitative and/or quantitative data/information from various perspectives and sources (e.g., primary, secondary, print, nonprint) to develop and support an argument.	<p>EK 4.2A1: Evidence can be collected from print and nonprint sources (e.g., libraries, museums, archives), experts, or data gathered in the field (e.g., interviews, questionnaires, observations).</p> <p>EK 4.2A2: Evidence is used to support the claims and reasoning of an argument. Compelling evidence is sufficient, accurate, relevant, current, and credible to support the conclusion.</p> <p>EK 4.2A3: Evidence is strategically chosen based on context, purpose, and audience. Evidence may be used to align an argument with authority; to define a concept, illustrate a process, or clarify a statement; to set a mood; to provide an example; to amplify or qualify a point.</p> <p>EK 4.2A4: The evidence selected and attributed contributes to establishing the credibility of one's own argument.</p>
	LO 4.2B: Providing insightful and cogent commentary that links evidence with claims.	EK 4.2B1: Commentary connects the chosen evidence to the claim through interpretation or inference, identifying patterns, describing trends, and/or explaining relationships (e.g., comparative, causal, correlational).
EU 4.3: Responsible participation in the scholarly community requires acknowledging and respecting the prior findings and contributions of others.	LO 4.3A: Attributing knowledge and ideas accurately and ethically, using an appropriate citation style.	<p>EK 4.3A1: Accurate and ethical attribution enhances one's credibility.</p> <p>EK 4.3A2: Plagiarism is a serious offense that occurs when a person presents another's ideas or words as his or her own. Plagiarism may be avoided by acknowledging sources thoroughly and accurately.</p> <p>EK 4.3A3: Source material should be introduced, integrated, or embedded into the text of an argument.</p> <p>EK 4.3A4: Quoted and paraphrased material must be properly attributed, credited, and cited following a style manual. Quoting is using the exact words of others; paraphrasing is restating an idea in one's own words.</p>

Enduring Understandings (Students will understand that . . .)	Learning Objectives (Students will be skilled at . . .)	Essential Knowledge (Students will know that . . .)
<p>EU 4.3: Responsible participation in the scholarly community requires acknowledging and respecting the prior findings and contributions of others.</p> <p><i>(continued)</i></p>	<p>LO 4.3A: Attributing knowledge and ideas accurately and ethically, using an appropriate citation style.</p> <p><i>(continued)</i></p>	<p>EK 4.3A5: Academic disciplines use specific style guides for citing and attributing sources (e.g., APA, MLA, Chicago, AMA).</p> <p>EK 4.3A6: Appropriation in works of art has potential legal and ethical implications that scholars need to consider (e.g., scholars must credit works that are used in visual/ audio sampling, parody, choreography).</p>
<p>EU 4.4: Forming one's own perspective and reaching new understandings involve innovative thinking and synthesis of existing knowledge with personally generated evidence.</p>	<p>LO 4.4A: Extending an idea, question, process, or product to innovate or create new understandings.</p>	<p>EK 4.4A1: Innovative solutions and arguments identify and challenge assumptions, acknowledge the importance of content, imagine and explore alternatives, and engage in reflective skepticism.</p>
<p>EU 4.5: Arguments, choices, and solutions present intended and unintended opportunities and consequences.</p>	<p>LO 4.5A: Offering resolutions, conclusions, and/or solutions based on evidence considering limitations and implications.</p>	<p>EK 4.5A1: When making choices and proposing solutions, the advantages and disadvantages of the options should be weighed against the goal within its context.</p>

Big Idea 5: Team, Transform, and Transmit

Collaboration, communication, and reflection are skills that provide opportunities for students to develop their learning. When collaborating, students draw upon their own strengths and the strengths of a team of peers, expert advisers, and teachers to achieve their best possible work. Students should engage in peer review and personal revision to refine and tailor their arguments.

An argument is effectively communicated when its purpose is clear, it is tailored to a specific audience and context, and it is conveyed through a medium appropriate and appealing to the intended audience. Adhering to standard language conventions and engaging delivery techniques establishes a writer's or speaker's credibility with his or her audience. Sometimes arguments or perspectives are associated with and accompanied by an innovation or artistic work. These works should make clear the artistic choices for the aesthetic rationale or focus on one perspective over another.

Whether working alone or in a group, students reflect on their work and learning processes, which can lead to personal growth as well as even more effective inquiry, learning, and collaboration.

ESSENTIAL QUESTIONS

- How can I best appeal to and engage my audience?
- What is the best medium or genre through which to reach my audience?
- How might I adapt my written and oral presentations for different audiences and situations?
- How might my communication choices affect my credibility with my audience?
- Which revision strategies are most appropriate to developing and refining my project at different stages?
- How do I provide feedback that is valuable to others? How do I act upon feedback I have received?
- How can I benefit from reflecting on my own work?

Note: LO 5.1A and EK 5.1A1 are different for AP Seminar [S] and AP Research [R].

Enduring Understandings (Students will understand that . . .)	Learning Objectives (Students will be skilled at . . .)	Essential Knowledge (Students will know that . . .)
EU 5.1: How a perspective or argument is presented affects how people interpret or react to it. The same perspective or argument may be developed or presented differently depending on audience, purpose, and context.	LO 5.1A[S]: Planning, producing, and presenting a cohesive argument, considering audience, context, and purpose.	<p>EK 5.1A1[S]: An argument may include the following elements:</p> <ul style="list-style-type: none"> › Introduction: engages the audience by providing background and/or context › Thesis: conveys the main idea of an argument › Reasons, evidence, and commentary: provide support for the argument › Counterargument, concession, refutation, and rebuttal: acknowledge and/or respond to opposing arguments › Conclusion: synthesizes reasoning, considers possible implications for the future, and ties back to the introduction › Bibliography: identifies works cited

Enduring Understandings (Students will understand that . . .)	Learning Objectives (Students will be skilled at . . .)	Essential Knowledge (Students will know that . . .)
<p>EU 5.1: How a perspective or argument is presented affects how people interpret or react to it. The same perspective or argument may be developed or presented differently depending on audience, purpose, and context.</p> <p><i>(continued)</i></p>	<p>LO 5.1A[R]: Planning and producing a cohesive academic paper, considering audience, context, and purpose.</p>	<p>EK 5.1A1[R]: Inquiries result in conclusions that can be presented in different formats and that typically have the following elements:</p> <ul style="list-style-type: none"> › Introduction: provides background and contextualizes the research question/project goal, reviews previous work in the field related to the research question/project goal, and identifies the gap in the current field of knowledge to be addressed › Method, Process, or Approach: explains and provides justification for the chosen method, process, or approach › Results, Product, or Findings: presents the results, product, evidence, or findings › Discussion, Analysis, and/or Evaluation: interprets the significance of the results, product, or findings; explores connections to original research question/project goal; discusses the implications and limitations of the research or creative work › Conclusion and Future Directions: reflects on the process and how this project could impact the field; discusses possible next steps › Bibliography: provides a complete list of sources cited and consulted in the appropriate disciplinary style <p>EK 5.1A2: Coherence is achieved when the elements and ideas in an argument flow logically and smoothly. Transitions are used to move the audience from one element or idea to another by illustrating the relationship between the elements or ideas.</p>
	<p>LO 5.1B: Adhering to established conventions of grammar, usage, style, and mechanics.</p>	<p>EK 5.1B1: A writer expresses tone or attitude about a topic through word choice, sentence structure, and imagery.</p> <p>EK 5.1B2: Effective sentences create variety, emphasis, and interest through structure, agreement of elements, placement of modifiers, and consistency of tense.</p>

Enduring Understandings (Students will understand that . . .)	Learning Objectives (Students will be skilled at . . .)	Essential Knowledge (Students will know that . . .)
<p>EU 5.1: How a perspective or argument is presented affects how people interpret or react to it. The same perspective or argument may be developed or presented differently depending on audience, purpose, and context.</p> <p><i>(continued)</i></p>	<p>LO 5.1B: Adhering to established conventions of grammar, usage, style, and mechanics.</p> <p><i>(continued)</i></p>	<p>EK 5.1B3: Precision in word choice reduces confusion, wordiness, and redundancy.</p> <p>EK 5.1B4: Spelling and grammar errors detract from credibility.</p>
	<p>LO 5.1C: Communicating information through appropriate media using effective techniques of design.</p>	<p>EK 5.1C1: Effective organizational and design elements (e.g., headings, layout, illustrations, pull quotes, captions, lists) may aid in audience engagement and understanding by calling attention to important information and/or creating emotional responses in the audience. Ineffective use or overuse of these elements disrupts audience engagement and understanding.</p> <p>EK 5.1C2: Data and other information can be presented graphically (e.g., infographics, graphs, tables, models) to aid audience understanding and interpretation.</p> <p>EK 5.1C3: Effective communication requires choosing appropriate media (e.g., essay, poster, oral presentation, documentary, research report/thesis) according to context, purpose, and audience.</p>
	<p>LO 5.1D: Adapting an argument for context, purpose, and/or audience.</p>	<p>EK 5.1D1: Arguments can be adapted by strategically selecting and emphasizing information considering audience, situation, medium, and purpose.</p> <p>EK 5.1D2: Scholars should articulate their choices and content in a language that is not discipline-specific to communicate effectively to nonexperts or people outside the discipline.</p>
	<p>LO 5.1E: Engaging an audience by employing effective techniques of delivery or performance.</p>	<p>EK 5.1E1: Speakers vary elements of delivery (e.g., volume, tempo, movement, eye contact, vocal variety, energy) to emphasize information, convey tone, and engage their audience.</p>

Enduring Understandings (Students will understand that . . .)	Learning Objectives (Students will be skilled at . . .)	Essential Knowledge (Students will know that . . .)
<p>EU 5.1: How a perspective or argument is presented affects how people interpret or react to it. The same perspective or argument may be developed or presented differently depending on audience, purpose, and context.</p> <p><i>(continued)</i></p>	<p>LO 5.1E: Engaging an audience by employing effective techniques of delivery or performance.</p> <p><i>(continued)</i></p>	<p>EK 5.1E2: Scholars present, perform, and/or produce their work in multiple ways. This may take discipline-specific forms (e.g., portfolios, exhibits, performances, showcases, premieres, posters), but may also cross disciplinary boundaries.</p> <p>EK 5.1E3: Scholars present, perform, and/or produce their completed work after multiple revisions or rehearsals (e.g., responding to audience feedback, self-critique of recorded performance) and polishing.</p>
	<p>LO 5.1F: Defending inquiry choices and final product with clarity, consistency, and conviction.</p>	<p>EK 5.1F1: Scholars effectively articulate the rationale for inquiry choices in relation to the completed work.</p> <p>EK 5.1F2: Scholars engage thoughtfully with their audiences' critiques and questions.</p>
<p>EU 5.2: Teams are most effective when they draw on the diverse perspectives, skills, and backgrounds of team members to address complex, open-ended problems.</p>	<p>LO 5.2A: Providing individual contributions to overall collaborative effort to accomplish a task or a goal.</p> <p>LO 5.2B: Fostering constructive team climate, resolving conflicts, and facilitating the contributions of all team members to address complex, open-ended problems.</p>	<p>EK 5.2A1: Knowing and communicating one's strengths and challenges to a group allows one's contributions to be more effective.</p> <p>EK 5.2B1: Teams are built around tasks. Low-risk teambuilding activities and simulations enhance a team's performance.</p> <p>EK 5.2B2: Teams function at their best when they understand the diversity of their social-cultural perspectives, talents, and skills.</p> <p>EK 5.2B3: Teams function at their best when they practice effective interpersonal communication, consensus building, conflict resolution, and negotiation.</p> <p>EK 5.2B4: Effective teams consider the use of online collaborative tools.</p>

Enduring Understandings (Students will understand that . . .)	Learning Objectives (Students will be skilled at . . .)	Essential Knowledge (Students will know that . . .)
EU 5.3: Reflection increases learning, self-awareness, and personal growth through identification and evaluation of personal conclusions and their implications.	LO 5.3A: Reflecting on and revising their own writing, thinking, and creative processes.	<p>EK 5.3A1: Reflection is an ongoing and recursive process in inquiry, often leading to changes in understanding. Strategies for reflection may include journal writing, self-questioning, drawing, exploration of space, and/or guided contemplation.</p> <p>EK 5.3A2: Learning requires practice through an iterative process of thinking/ rethinking, vision/revision, and writing/ rewriting.</p> <p>EK 5.3A3: Scholars are mindful of the rationale behind the chosen method for data collection, information gathering, analysis, production, and presentation.</p> <p>EK 5.3A4: Scholars reflect on how the inquiry process helped them deepen their understanding, make important connections, and develop greater self-direction.</p>
	LO 5.3B: <i>Reflecting on experiences of collaborative effort.</i>	EK 5.3B1: <i>Reflection acknowledges the impact of actions on both the group and individual contributions, noting the reasons for such actions, assumptions made, and whether or not such actions and assumptions hindered or helped the achievement of the group's and individuals' tasks.</i>
	LO 5.3C: Reflecting on the larger significance of engaging in the overall inquiry process and producing a completed scholarly work.	<p>EK 5.3C1: Reflective scholars explore potential future directions for their inquiries and the development of their own scholarship or bodies of work.</p> <p>EK 5.3C2: Reflective scholars acknowledge how their inquiry processes and resulting works can be transformational for their own and others' understanding as well as for their personal identities as scholars.</p>

Enduring Understandings (Students will understand that . . .)	Learning Objectives (Students will be skilled at . . .)	Essential Knowledge (Students will know that . . .)
EU 5.4: Scholars perform, present, and/or produce their work within a larger community. Throughout the inquiry process, scholars interact with and benefit from the scholarly community through thoughtful engagement with the opinions and critiques of others.	LO 5.4A: Engaging in peer review to provide constructive responses to one another's work, appropriate to the stage of a project's development.	EK 5.4A1: Peer review should be based on guidelines and defined criteria appropriate to the work.
	LO 5.4B: Engaging in peer review to receive and consider responses to their work.	EK 5.4B1: Peer review is an effective way for scholars to strengthen their critical eye as well as strengthen their own work. EK 5.4B2: Communities of scholars produce, present, and perform effectively when participants actively seek and provide feedback.

AP Research Instructional Approaches

Organizing the Course

INQUIRY AND THE ACADEMIC CONVERSATION

Critical inquiry focuses on the creation of new ideas, perspectives, and arguments. Teachers must help students understand that the research process is not simply about collecting evidence or facts and then piecing them together. Instead, the research process is about *inquiry* — asking questions and coming to solutions and conclusions through serious thinking and reflection. The researcher seeks relevant information in articles, books, and other sources and develops an informed perspective built upon, but not merely derivative of, the ideas in the examined material. As a result, the research process is recursive, meaning that the researcher regularly revisits ideas, seeks new information when necessary, and reconsiders and refines the research questions, topic, and/or approach. Additionally, students should understand that sometimes the inquiry leads to the development of an additional piece of scholarly work (e.g., product, exhibit, performance).

Facilitating students' entrance into academic or real-world conversations about complex issues is a key goal of both the AP Seminar and AP Research courses. The AP Seminar course aims to build independent, critical thinkers by empowering students to develop the skills and traits necessary for future academic study through the examination of multiple perspectives, evaluation of credibility of sources, and construction of arguments. The AP Research course provides students the opportunity to build upon these skills by choosing and deeply exploring a topic or question of personal interest and developing and defending a more comprehensive argument and conclusion. Throughout the research or inquiry process, students document and reflect on feedback received and on their own thinking, writing, and creative processes through a process and reflection portfolio. The AP Research course culminates in the students' presentation and oral defense of their academic paper.

ORGANIZATIONAL MODELS

AP Research can be organized in a variety of ways to best address student interests, state and/or country and district goals and requirements, and local school traditions and culture. Four examples are illustrated in the table on the next page.

AP Research Model	Description	Example Courses
Disciplinary Focus	The course content is grounded in a specific discipline.	<p>AP Research: STEM Inquiries</p> <p>This course is offered as an elective in science or math. The units of study focus on developing students' understanding and implementation of research methods in STEM fields for an inquiry investigation of the students' choice.</p> <p>AP Research: Performing and Visual Arts</p> <p>This course is offered as an elective for students with an interest in the various arts disciplines. The units of study focus on developing students' understanding and implementation of inquiry in the arts with an emphasis on developing a product, performance, or exhibit alongside the academic paper, presentation, and oral defense.</p>
Internship	The course provides a framework for students in extracurricular internships of any discipline to receive credit for their research as long as it adheres to the AP Research course assessment task descriptions and scoring guidelines.	<p>AP Research: Independent Study</p> <p>This course is intended for students who are already working with a discipline-specific expert adviser to conduct independent study in research of the student's choosing. The teacher must act as the course facilitator in ensuring the expert adviser and student are aware of the course curricula, assessments, and timeline. The teacher of record will still be responsible for scoring and uploading the students' work.</p>
Thematic Survey Linked to AP Course	AP Research students are concurrently enrolled in another common AP course, allowing for team teaching and connecting of AP course-specific content with AP Research skills and culminating in an academic paper, presentation, and oral defense.	<p>AP Research: Biology</p> <p>Students are concurrently enrolled in AP Biology allowing for cross-curricular connections between the two courses. Inquiry topics chosen by students are researched using the methods common to the field of biology.</p>
General	The course focuses on research methods of two or more disciplines rather than any one specific field.	<p>Research Methods</p> <p>Students develop an understanding of the different disciplines' paradigms, ways of knowing, and inquiry methods for the purpose of determining which method best fits their chosen topic of inquiry/research question. Each student then uses a selected method to complete his or her investigation.</p>

BRIDGING FROM THE AP SEMINAR COURSE TO THE AP RESEARCH COURSE

To prepare AP Seminar students to enter AP Research, the next course in the AP Capstone program, teachers should provide students with a preview of the skills, goals, and timelines of the AP Research course and how it builds upon yet differs from AP Seminar. In AP Research, students further the skills they acquired in AP Seminar by learning research methodology, employing ethical research practices, and generating, analyzing, and synthesizing evidence to come to a new understanding.

Upon completion of the AP Seminar End-of-Course Exam, students who will continue on to the AP Research course may also be given the opportunity to:

- Consider potential topics and questions to spark their interest in engaging in an individual research project
- Research potential expert advisers to guide them in the planning and development of their research project
- Engage in summer experiences that provide exposure to their research interests

In schools that permit students to begin the AP Research course in the summer, the AP Seminar and AP Research course instructors should provide AP Research students with additional instruction, assignments, and avenues for continued communication to guide them through the research planning process during the summer months.

A SAMPLE TIMELINE

Students' online proposal forms for the Academic Paper must be approved by the course instructor by November 30. The scores for the AP Research Academic Paper and Presentation and Oral Defense and checkpoints affirmations must be completed by **May 10 at 11:59 p. m. ET**. AP Research teachers should devise a timeline to ensure adherence to these due dates and to reflect the needs of the students, the culture of the school, and students who may begin research in the summer via internships. A sample timeline follows on the next page.

Month	Task
May (End of AP Seminar Course)	AP Seminar students consider topics, problems, or ideas for inquiry and practice developing research questions.
June–September	Students choose a topic/issue, carry out preliminary research, develop an annotated bibliography, and finalize a research question and proposal.
September–October	Students present a preliminary inquiry proposal for peer review; identify the need for, recruit, and begin communication with expert advisers; finalize and submit a proposal; and reflect on feedback received.
October–November	Students complete the background component of their inquiry and finalize the choice and design of their inquiry method. If necessary, they submit a revised version of their proposal for final approval. <i>Proposals should be approved by the teacher no later than November 30.</i>
November–January	Students implement their inquiry methods while engaging in progress and reflection interviews with the teacher to ensure challenges with methods and time management are addressed. <i>Students curate the inquiry process, writing, and reflection artifacts from September to March in their process and reflection portfolios (PREP).</i>
January–March	Students write, proofread, peer review, and submit their academic papers, ensuring all components are present and meet rubric criteria. <i>Students finalize additional scholarly work or product if such was required as a result of their inquiry.</i>
March–April	<p>Teachers score and students present their work.</p> <ul style="list-style-type: none"> › March 15–30: Students complete papers. › April 1–15: Students prepare, practice, and deliver presentations with oral defense. <i>Students must arrange for viewing of additional scholarly work by teacher and panelists prior to giving their presentations and oral defense (where applicable).</i> › April 15–April 30: Students finalize and upload academic papers in the AP Digital Portfolio. › April 15–May 10: Teachers complete checkpoint affirmations and finalize and upload scores for presentations with oral defense in the AP Digital Portfolio. › Student submission Deadline: April 30, 11:59 p.m. ET
April–May	AP Research students present summary of work and lessons learned to AP Seminar students.

Teaching the Skills

The focus of the AP Capstone Program courses is on skill development: students practice, refine, and master the skills critical for academic success. The curriculum framework identifies the learning objectives and essential knowledge that address the core skills listed below in more detail. As teachers create instructional units, they should carefully plan so that such skills are developmentally sequenced and appropriate scaffolding is provided. Using the representative instructional strategies illustrated in the table below, teachers should provide AP Research students with multiple opportunities to engage in the core skills of the course.

Core Skill Area	Description	Representative Instructional Strategies
Identifying and Refining Research Questions	The process of narrowing a scope of interest into a research question to serve as the foundation of a long-term investigation or inquiry.	<p>Graphic Organizers</p> <p>Teachers provide a visual system for organizing multiple ideas, perspectives, and/or arguments and their supporting evidence for the purpose of narrowing a field of interest into a focused problem, topic of inquiry, or research question. Examples include Venn diagrams, flow-charts, and mind maps.</p> <p>Question Formulation Technique</p> <p>Teachers provide a stimulus from which students openly brainstorm questions, categorize questions as <i>open</i> or <i>closed</i>, and work on improving them.</p> <p>I-Search</p> <p>Students perform a quick search and complete a quickwrite that identifies the research questions within three to five published research studies and lists the criteria that make these research questions capable of sustaining a long-term scholarly study.</p> <p>Peer Review</p> <p>Students work with peers and expert advisers to critique and revise research questions to be focused, open-ended, and capable of sustaining a long-term investigation.</p> <p>Elevator Pitch</p> <p>Students present a 2-minute summary of the chosen topic of inquiry, research question, and purpose of the study to determine whether or not others clearly understand the focus of the study.</p>

Core Skill Area	Description	Representative Instructional Strategies
Seeking and Synthesizing Background Information	The process of becoming familiar with and synthesizing what others have discovered about the topic so that the scholar can verify the existence of a problem or gap in the knowledge base to form the basis of a long-term investigation.	<p>Working with LEADS</p> <p>Students identify others' studies and findings in order to:</p> <ul style="list-style-type: none"> › Lay the foundation for their own study › Elucidate the selected problem or topic of inquiry › Analyze why their study is appropriate › Describe why their study is capable of solving a problem or producing a work › Show studies similar to theirs <p>Annotated Bibliography of Context and Background</p> <p>Students perform a review of the literature of the field. For each source/article students write a brief summary of a text and a commentary on its usefulness to the inquiry along with the citation.</p> <p>Source Mining</p> <p>Students review the bibliographies of research studies or articles on a topic to see which names or works appear repeatedly to get an overview of key scholars in the field.</p>
Aligning Study Design	The process of identifying an aligned, feasible research or inquiry design to accomplish the purpose of the research question and/or project goal while taking into consideration time constraints, availability of resources, participant accessibility, and paperwork due to ethics guidelines.	<p>Annotated Bibliography of Methods</p> <p>Students write citations and brief summaries of the research questions and methods of scholarly, peer-reviewed studies on their chosen topic along with commentaries on those methods' alignment with their own chosen study design or approach.</p> <p>Poster Presentation and Peer Review</p> <p>Students present a poster showing the research question, purpose of study, background and context information, and chosen or designed method for collecting information to engage others in peer reviewing the feasibility and alignment of the study design, approach, or method.</p>

Core Skill Area	Description	Representative Instructional Strategies
Analyzing and Evaluating Findings	The process of interpreting the significance of the findings, results, or product and exploring connections to the original research question and project goal.	<p>Flow Chart</p> <p>Students present the connections between the research question and information collected and rank the significance or importance of the findings to the purpose of the study.</p> <p>Statistical Analyses</p> <p>Students use descriptive or inferential statistics to categorize and summarize large data sets to determine the significance of the data to the research question and purpose of the study.</p> <p>Data Table and Graphical Analyses</p> <p>Students plot or categorize images, graphs, and/or other visual presentations of data or information into chunks for the purpose of determining the significance of the findings or results to the research question and purpose of the study.</p>
Engaging with Discipline-Specific Expert Advisers	The process of communicating with experts in the discipline or field of study to obtain guidance and feedback on one's research question, study purpose, interpretation of findings, or extended piece of scholarly work.	<p>Online File Access and Feedback</p> <p>Students use online word processors (e.g., Google Docs) and storage systems (e.g., DropBox) to share documents and get feedback from experts in the field or discipline of study.</p> <p>Email or Video Chat</p> <p>Students schedule regular communication via text or video platform with an expert in the discipline or field of study.</p>
Peer Review	The process of providing and receiving timely, constructive feedback according to a set of guidelines in order to improve one's critical eye and scholarly work.	<p>Rubric Review</p> <p>Students identify and comment on aspects of sample student work that align with a designated rubric's criteria.</p> <p>Compliments and Suggestions</p> <p>Using peer-editing guidelines, students provide three positive notes and three revision suggestions on peers' scholarly work.</p>
Showcasing Scholarly Work	The process of conveying a clear message in a way that engages and appeals to a specific audience.	<p>Public Practice and Peer review</p> <p>Students provide structured reviews of one another's presentations according to a set of established guidelines (e.g., must not be personal, must be constructive with suggestions for improvement).</p>

Core Skill Area	Description	Representative Instructional Strategies
Showcasing Scholarly Work <i>(continued)</i>	The process of conveying a clear message in a way that engages and appeals to a specific audience. <i>(continued)</i>	Videotaping: Self-Evaluation and Reflection Students review recordings of their own presentations with guided reflection questions focusing on specific techniques. Practice Modeling Teachers model for students the different techniques for emphasizing ideas and engaging an audience (e.g., eye contact, vocal variety, emphatic gestures).
Defending Inquiry Outcomes	The process of demonstrating the significance of one's research by explaining the research process, findings, conclusions, and reflections to those in attendance.	Peanut Gallery Students deliver short presentations to their peers, with their peers asking critical questions and providing constructive feedback on the clarity, validity, and coherence of the scholarly work.
Reflecting	The process of making learning goals, assessing one's achievement toward such goals, and identifying both challenges that hindered and effective strategies that helped one achieve the goals.	Research Process and Reflection Portfolio Students document and curate scholarly work with reflective commentary on the artifacts they've chosen to reflect moments of insight, clarity, and growth. Students record documentation of daily work, questions, and challenges pertaining to the development and completion of the scholarly inquiry, including responses to such guiding reflection questions as: <ul style="list-style-type: none"> ➤ Identify personal insights, moments of critical questioning, and comments or ideas from today's work that have impacted you. ➤ Describe why these insights, questions, and ideas are important to you. What effect do they have and what dilemmas, questions, or possibilities do they raise? ➤ How do these issues affect the clarity, order, confusion, or chaos of your thinking?
Strengthening Self-Directedness and Time Management	The process of personally identifying tasks, setting deadlines, and holding oneself accountable to achieve a learning goal or create a scholarly product.	Biweekly WIPs Teachers provide opportunities for scholars to present their work in progress (WIP) to their peers and to receive feedback on addressing challenges, time management, or even data interpretation.

Formative Assessments

In addition to developing instructional activities and units of study that engage students in the AP Research course content, teachers should develop formative assessments to effectively prepare students for the AP Research through-course performance task components: the Academic Paper and the Presentation and Oral Defense.

Examples of formative assessments and suggestions for when to implement them are described in the table below. These are not meant to be graded assessments; they are intended as opportunities for students and teachers to evaluate student progress, address problems or misconceptions, and improve student learning.

Timeline	Formative Assessment	Purpose
September–October	Rubric and Evaluation of Papers	Apply assessment rubric components for the academic paper to sample student papers and identify the different levels of achievement evidenced in those samples.
	Annotated Bibliography I: Topic of Inquiry Background	Effectively search for and identify a broad range of perspectives and scholarly sources of information for the chosen field of study.
	Focused Topic of Inquiry	Exhibit knowledge of the field of interest and develop a narrow, novel, researchable problem, topic, or idea.
October–November	Peer Review of Research Questions	Differentiate between well- and poorly-formed research questions, and offer/receive feedback on research question drafts.
	Finalization of Research Question and Purpose of Inquiry	Develop a clearly articulated research question that is capable of being researched at this level and clearly articulate the purpose/goals of the inquiry.
	Annotated Bibliography II: Discipline-Specific Style with Literature Review	Perform an in-depth literature review that outlines the scholarly source materials used and how the materials offer information and views relating to the question. Demonstrate comprehensiveness of the literature review as exhibited by breadth, relevance, currency, availability, and authority within chosen resources, using the discipline-specific style common to the field of study.
	Annotated Bibliography III: Inquiry Methods of the Field of Study	Identify the research question, variables, measurements, and limitations within published quantitative, qualitative, and mixed-methods research studies. Differentiate between the purpose and components of quantitative, qualitative, and mixed-methods studies.

Timeline	Formative Assessment	Purpose
October–November <i>(continued)</i>	Poster Presentation of Research Proposal	Effectively articulate the focused topic of inquiry, research question, overview of the knowledge of the field, gap the chosen inquiry fills, and selected or designed method of inquiry to collect data to address research question or inquiry topic.
November–March	Inquiry Method Design	Describe procedures used for analysis in sufficient detail to permit understanding of how the data were analyzed and the processes and assumptions underlying specific techniques. Evaluate the fit between the purpose of the proposal, its research design, and its data collection strategy.
	Biweekly Work in Progress Interview	Exhibit regular maintenance of a research portfolio to record revisions, amendments, and reflections during the inquiry process. Prepare and periodically update timetable or project plan that clearly outlines what activities must be accomplished and the deadlines by which the objectives of the course must be achieved.
	Biweekly Peer Review	Review and revise the elements of the academic paper with attention paid to the purpose, research question, and research method to ensure clarity and alignment and to address peer, teacher, and expert adviser feedback.
March–April	Practice Presentations	Exhibit polished articulation and effective presentation of the inquiry performed.
	Peer Panels	Exhibit depth of knowledge of topic of inquiry and articulation of choices made in design and interpretation/synthesis of evidence through the research project through responses to feedback and suggestions for revision.
May–End of School	Process and Reflection Portfolio: Exit Interview	Articulate moments of insight, challenge, and change in thought processes as exhibited by the curation of the inquiry process in the portfolio.

Selecting and Accessing Resources

When selecting texts for study, teachers should challenge students to engage with and analyze complex and scholarly sources. Helping students with the identification of scholarly materials requires a discussion of peer review, which differentiates scholarly from nonscholarly sources in an academic research community. Students should be invited to find and contribute texts for study, providing them opportunities to make connections of their own.

Access to a variety of print and online style guides, writing and argumentation handbooks, databases, and other reference materials is essential to equip students and teachers with the tools necessary for research and communication. To supplement the access to scholarly source databases that teachers provide to students, College Board will provide both teachers and students free access to EBSCOhost. More information about gaining access will be given to teachers during the mandatory professional development.

AP Capstone™ Policy on Plagiarism and Falsification or Fabrication of Information

Participating teachers shall inform students of the consequences of plagiarism and instruct students to ethically use and acknowledge the ideas and work of others throughout their course work. The student's individual voice should be clearly evident, and the ideas of others must be acknowledged, attributed, and/or cited.

A student who fails to acknowledge the source or author of any and all information or evidence taken from the work of someone else through citation, attribution or reference in the body of the work, or through a bibliographic entry, will receive a score of 0 on that particular component of the AP Seminar and/or AP Research Performance Task. In AP Seminar, a team of students that fails to properly acknowledge sources or authors on the Team Multimedia Presentation will receive a group score of 0 for that component of the Team Project and Presentation.

A student who incorporates falsified or fabricated information (e.g. evidence, data, sources, and/or authors) will receive a score of 0 on that particular component of the AP Seminar and/or AP Research Performance Task. In AP Seminar, a team of students that incorporates falsified or fabricated information in the Team Multimedia Presentation will receive a group score of 0 for that component of the Team Project and Presentation.

AP Capstone Policy on Use of Generative Artificial Intelligence (AI)

DEFINITION OF GENERATIVE AI IN AP CAPSTONE COURSES

Generative AI tools use predictive technology to produce new text, charts, images, audio, video, etc. This includes not only ChatGPT and similar Large Language Models (LLMs), but also many writing assistants or plug-ins that are built on this or similar AI technologies.

POLICY ON ACCEPTABLE GENERATIVE AI USE IN AP CAPSTONE COURSES

Generative AI tools must be used ethically, responsibly, and intentionally to support student learning, not to bypass it. Accordingly, all performance tasks submitted in AP Seminar and AP Research must be the student's own work. While students are permitted to use generative AI tools consistent with this policy, their use is optional and not mandatory.

Students can use generative AI tools as optional aids for exploration of potential topics of inquiry, initial searches for sources of information, confirming their understanding of a complex text, or checking their writing — but not rewriting — for grammar and tone. However, students must read primary and secondary sources directly, perform their own analysis and synthesis of evidence, and make their own choices on how to communicate effectively both in their writing and presentations. Students may not use generative AI tools to write or create their assignments for them. It remains the student's responsibility to engage deeply with credible, valid sources and integrate diverse perspectives when working on the performance tasks. Students must complete interim "checkpoints" with their teacher to demonstrate genuine engagement with the tasks.

The following table describes what constitutes acceptable use of generative AI at different phases of the work to complete the performance tasks.

Phase of Work	Acceptable Use	Not Acceptable Use
Exploring ideas to develop and refine an area of inquiry	Using generative AI tools to get a sense of existing debates on an issue, potential sub-topics, or what is generally already widely known about a topic.	Taking the output of generative AI tools uncritically, such as using AI to generate a research question or thesis, without engaging with the actual research or relying solely on generative AI as a source of information about a topic
Finding sources	<ul style="list-style-type: none"> Using generative AI to find authors, organizations, publications, or sources that may be pertinent to the area of inquiry, so that the student can then locate and read those perspectives directly. Asking for recommendations on related sources to further explore the topic or address gaps in research. <p>NOTE: Not all AI tools are the same in terms of the likelihood they will provide output with credible sources. For example, AI-powered search engines for research databases draw from vetted sources, whereas ChatGPT does not necessarily differentiate. Students must review output with a skeptical, critical eye to be sure any suggested sources are real, credible, and relevant to their inquiry.</p>	Using a list of sources generated by AI without going to the original sources and reviewing the content.
Summarizing and/or interpreting sources	<p>Using generative AI to help develop understanding of complex texts by:</p> <ul style="list-style-type: none"> Requesting help with understanding complex vocabulary or sentence structures in a source. Asking for clarification on a confusing concept or passage in a source. <p>NOTE: Students should <u>always</u> read the original text of the sources they intend to use to ensure they are accurately understanding and utilizing the evidence from those sources in their work</p>	<ul style="list-style-type: none"> Generating a summary or paraphrasing of the source instead of reading it. Requesting direct quotes or citations from a source to use as evidence without independently identifying them. Copying and pasting AI generated source summaries into the final draft.
Synthesizing ideas and information from sources into a literature review, report, or argument	<p>No acceptable use.</p> <p>NOTE: Students will be asked questions in either their PREP-based in-progress meetings (AP Research) or in the checkpoints (AP Seminar) to ensure they have done this work themselves.</p>	<p>Asking generative AI to:</p> <ul style="list-style-type: none"> Compare or contrast sources and/or generate a review of literature. Synthesize common or contrasting elements from within a source or across multiple sources. Develop statements or paragraphs that put sources in conversation.

Phase of Work	Acceptable Use	Not Acceptable Use
Developing an aligned method for their Research (AP Research only)	Summarizing commonly used methods in discipline-specific fields or reviewing benefits and drawbacks of different generic methods or methodologies. NOTE: Students will be asked questions in their PREP-based in-progress meetings (AP Research) to ensure that they have done this work themselves.	Using generative AI to determine the appropriate method for an individual student's research and/or providing rationales for a specific method.
Producing, summarizing and/or interpreting data (AP Research only)	No acceptable use. NOTE: Students will be asked questions in their PREP-based in-progress meetings (AP Research) to ensure that they have done this work themselves.	<ul style="list-style-type: none"> Using generative AI to generate data (this would count as falsified and/or fabricated data). <i>The only exception would be if use of generative AI tools is the subject of the inquiry. In this case, using generative AI to generate data would be part of the method.</i> Using AI to summarize or discuss their results or data.
Developing displays of data (AP Research only)	Using generative AI to create charts/graphs or other representations of data collected and assembled by the student.	Using generative AI to produce or generate the data itself. <i>See exception noted above.</i>
Drafting or outlining a paper	Seeking guidance on general best practices in how to structure a research paper, essay, or report. NOTE: Students will be asked questions (on the reasoning underpinning their choices for structure and content) in either their PREP-based in-progress meetings (AP Research) or the checkpoints (AP Seminar) to ensure that they have done this work themselves.	<ul style="list-style-type: none"> Asking generative AI to produce an outline or draft of a specific paper. Requesting generative AI to write all or part of the paper. Using writing generated by AI in the final draft.
Revising a paper	<ul style="list-style-type: none"> Using spell or grammar checkers. Asking for feedback on style and tone (students must make deliberate choices on what feedback to incorporate). 	<ul style="list-style-type: none"> Accepting AI-generated suggestions for revisions of written work without critically evaluating such contributions. Incorporating into student submissions new sections of text suggested by generative AI.
Creating Citations / Bibliography	<ul style="list-style-type: none"> Seeking guidance on how to cite or check citations. Generating a draft of the bibliographic listing of citations or checking the format of a student-generated draft of the bibliographic listing of citations. 	<ul style="list-style-type: none"> Using AI to generate citations without having directly studied the original sources. Relying on generative AI to create the bibliographic listing of citations without then checking the accuracy of the format.
Developing Presentations	<ul style="list-style-type: none"> Seeking general guidance on effective presentations. Generating initial ideas for key points, sequence, or visuals for presentations. 	<ul style="list-style-type: none"> Uncritically using AI to produce the key points, visuals, or structure for presentations. Using AI to generate a script that is memorized or read for the presentation.
Preparing for Oral Defense	No acceptable use.	Using AI to generate possible answers to potential oral defense questions (and memorizing or reading them).

REQUIRED CHECKPOINTS AND AFFIRMATIONS

To ensure students are not using generative AI to bypass work, students must complete interim “checkpoints” with their teacher to demonstrate genuine engagement with the tasks. **AP Seminar and AP Research students will need to complete the relevant checkpoints successfully to receive a score for their performance tasks. Teachers must affirm, to the best of their knowledge, that students completed the checkpoints authentically in the AP Digital Portfolio. Failure to complete the checkpoints will result in a score of zero on the associated task.**

- In AP Seminar, teachers assess the authenticity of student work based on checkpoints that take the form of short conversations with students during which students make their thinking and decision-making visible (similar to an oral defense). These checkpoints should occur during the sources and research phase (IRR and IWA), and argument outline phase (IWA only).
- In AP Research, students must complete “checkpoints” in the form of in-progress meetings and work in the Process and Reflection Portfolio (PREP).

AP Seminar and AP Research teachers are also required to affirm, to the best of their knowledge, that the student’s final submission is authentic student work.

College Board reserves the right to investigate submissions where there is evidence of the inappropriate use of generative AI as an academic integrity violation and request from students copies of their interim work for review.

Engaging Community Members

Community members can play an integral role in students’ experiences with scholarly research. Discipline-specific expert advisers can guide students’ formulation of research questions, interpretation of data, and the academic paper or presentation revision process as well as provide critical, constructive feedback to strengthen students’ voices in the academic conversation. Institutional review boards can provide guidance on students’ designs and approve students’ implementation of ethical research practices. Additional resources for training external expert advisers on the assessment tasks and timeline for the AP Research course will be provided to teachers during the mandatory professional development.

A designated staff member may also coordinate a pool of expert advisers for the AP Research course and assist in matching students with outside experts. AP Research teachers and school administrators should identify school and district policies pertaining to students engaging virtually or face-to-face with external expert advisers and communicate such policies to parents, students, and potential expert advisers.

Reviewing Student Research Proposals for Ethical Considerations

All research proposals should be reviewed by the classroom teacher for ethical considerations prior to data collection. Multiple student revisions may be required before teacher approval is granted. In particular, research with human subjects, animal subjects, harmful microorganisms, or hazardous materials requires special consideration by the teacher.

Research involving human subjects must be evaluated for:

- a. potential harm to subjects that may result from their participation;
- b. potential benefits of the research for the subject and the community as a whole;
- c. procedures used to ensure the informed and voluntary participation of research subjects;
- d. procedures used to ensure the confidentiality of research subjects.

Accordingly, the teacher must review any surveys, interview questions, questionnaires, or other interventions to be used in a project, as well as student plans for protecting animal and human subjects’ well-being and human subjects’ anonymity and/or confidentiality. **Proposals that pose more than minimal risk to participants cannot be approved.**

If students do not plan to present their findings on human subject research in a competition setting, and/or disseminate their findings by publishing or publicly presenting their findings, teacher approval is sufficient.

However, there are two general circumstances in which additional review is necessary:

1. Students whose projects involve animal subjects, harmful microorganisms, or hazardous materials may require additional review or approval by school or district processes.
2. Students who want to publish and/or publicly present their findings regarding human subjects research will require an additional review and approval process by a federally registered Institutional Review Board (IRB).

Many communities have IRBs in local organizations such as high schools, science and engineering competition organizations, community colleges, universities, and medical centers.

Teachers may work with school administrators to establish and register an IRB to evaluate research projects using human subjects. The IRB registration process can be found at the link below or by searching “IRB registration instructions on hhs.gov:

<https://www.hhs.gov/ohrp/register-irbs-and-obtain-fwaf/forms/irb-registration-instructions/index.html>.

Participating in External Research Presentations and Competition Platforms

Students who choose to participate in any high school academic competitions (e.g., Regeneron Science Talent Search, National History Day, Davidson Fellows, Stemanities Competition), should ensure that they, their faculty advisers, and, if applicable, their external expert advisers are familiar with the rules and timetables for both the relevant competition and the AP Research course. If students are submitting their AP Research work to competitions prior to submitting to the AP Digital Portfolio for scoring, teachers should work with students on strategies on how to receive feedback from competition judges without violating the AP Research rules on engaging with expert advisers outlined on page 52. Specifically, students must make sure judges are aware that students are not allowed to receive specific, directive feedback about their work prior to the final AP Digital Portfolio submission.

Preparing the Process and Reflection Portfolio (PREP)

The primary purpose of the process and reflection portfolio (PREP) is to inspire, support, and document the students' development throughout their research process. This portfolio should be reviewed throughout the year as a formative assessment component of the course and should be maintained by the student as evidence of participating in research to show to academic counselors, college admission officers, and faculty members.

Throughout the inquiry process, students will document their research and/or artistic processes and communications with their expert advisers, pose questions they want to explore, and reflect on the decisions made throughout the iterative research process. Students should also examine their strengths and weaknesses with regard to implementing such processes and developing their arguments or aesthetic rationales.

Through the professional development experience, teachers will be provided with a list of optional questions and tasks to help them guide students through the inquiry process. These questions help students in the early months of the academic year as they begin the inquiry process and throughout the year as they examine, and reexamine, their chosen areas of study and the process by which they engage in research. Teachers can also design their own questions and tasks.

The combined group of questions and tasks in the PREP document should address all five big ideas in the curriculum framework (QUEST), with specific attention paid to the following:

- Choice of the research question and interest in the subject matter
- Directions in which the inquiry or project seemed to lead and changes to initial topic, question, assumptions, and research method
- Research method, including resources used (documents, people, multimedia, measurement instruments etc.)
- Compilation and analysis of evidence
- Ways in which students have worked both on their own and as part of a larger scholarly community
- Challenges and solutions encountered throughout the research process
- Documentation that demonstrates the student's final work is their own authentic work.

Teachers should regularly engage students in individual discussions or interviews to help them reflect on and document their work, organize their time, and reach appropriate milestones. Teachers should also use these discussions as opportunities to formatively assess students' progress. The PREP should be used to inform regular progress reviews throughout the year. Teacher and student preference can determine the format of the portfolio (electronic or hard copy).

In addition to responses to questions and tasks provided by teachers, the final form of the PREP should have a clear organizational structure and include:

- Annotated bibliography of any source important to the student's work
- A completed and approved Inquiry Proposal Form
- Documentation of permission(s) and approval(s), if required — for example, permission(s) from an IRB or other agreements with individuals, institutions, or organizations that provide primary and private data such as interviews, surveys, or investigations
- Documentation or log of the student's interaction with expert adviser(s) and the role the expert adviser(s) played in the student's learning and inquiry process

- Feedback from peer and adult reviewers both in the initial stages and at key points in the research process; reflection on whether or not this feedback was accepted or rejected and why
- Photographs, charts, spreadsheets, and/or links to videos or other relevant visual research/project artifacts
- Draft versions of selected sections of the academic paper
- Specific pieces of work selected by the student to represent what they consider to be the best showcase for their work
- Notes taken in preparation for presentation and oral defense
- Affirmation signed by the student which states, "I hereby affirm that the work contained in this Process and Reflection Portfolio is my own and that I have read and understand the AP Capstone™ Policy on Plagiarism and Falsification or Fabrication of Information"

Note: Teachers must affirm, to the best of their knowledge, that students completed the PREP and routine work-in-progress checkpoints authentically. **Failure to complete the PREP and work-in-progress checks with their student, throughout the year, will result in a score of zero on the Academic Paper.**

AP Research Assessment Overview

Students are assessed with one through-course performance task consisting of two distinct components. Both components will be included in the calculation of students' final AP scores.

- **Academic Paper — 75%**
- **Presentation and Oral Defense — 25%**

AP Research Through-Course Performance Task

Weight: 100% of the AP Research score

Recommended Completion Date for Both Components: April 15

Student Submission Deadline: April 30, 11:59 p.m. ET

For this task, by May 10 at 11:59 p.m. ET, teachers must:

- ensure each student has submitted their Academic Paper (AP) as final in the AP Digital Portfolio by April 30 at 11:59 p.m. ET
- submit scores for the Presentation and Oral Defense (POD) in the AP Digital Portfolio
- complete checkpoints affirmation for each student in the AP Digital Portfolio

Note: Teachers must carefully plan a calendar that provides time for the performance task to be completed and submitted as final by April 30 at 11:59 p.m. ET. Only the Academic Paper is uploaded to the [AP Digital Portfolio](#). AP Research teachers are required to keep video files of the Presentation and Oral Defense for one academic year because College Board may request to review the scoring for this component to identify samples for scoring training and to ensure scoring quality.

Note: Teachers must review final student submissions, score student presentations, and affirm to authenticity in the [AP Digital Portfolio](#) by May 10 at 11:59 p.m. ET. Students will receive a zero for the Academic Paper if the affirmation is not completed by the teacher.

RETENTION OF PERFORMANCE TASK PRESENTATION AND ORAL DEFENSE VIDEOS

AP Research teachers are required to keep video files of all performance task presentations and oral defenses for a minimum of one academic year because College Board may request to review the scoring for these components to identify samples for scoring training and to ensure scoring quality.

TASK OVERVIEW

Students design, plan, and implement a yearlong, in-depth study or investigation in an area of personal interest through a chosen or designed inquiry method and develop a well-reasoned argument based on the evidence collected in an academic paper of 4,000–5,000 words. As a culmination of their research, students deliver (using appropriate media) a presentation and orally defend their research design, approach, and findings. Students whose academic paper is accompanied by an additional piece of scholarly work (e.g., performance, exhibit, product) must arrange for the teacher and panelists to view this work prior to the presentation and oral defense. Throughout the inquiry process, students communicate regularly with their teacher and, when appropriate, consult with an internal or external expert.

COMPONENTS

The following components are formally assessed:

Component	Scoring Method	Weight
Academic Paper (AP) 4,000–5,000 words	College Board scored	75%
Presentation and Oral Defense (POD) (15–20 minutes total for presentation followed by three or four questions from a panel of three evaluators).	Teacher scored	25%

TASK GUIDELINES

Students develop a research question/project goal on a topic of their own choosing in an area of personal interest. They submit an inquiry proposal (see Inquiry Proposal Form, p. 54) for the teacher’s approval, and teachers provide feedback that helps students refine their research question/project goals.

With assistance from the teacher, students may identify one or more expert adviser(s) — internal or external to the school — to serve as an additional resource. These individuals should be experts in the chosen discipline or field that the student is investigating or in the research method that the student chooses to employ.

Under the teacher’s guidance — and using the expert advisers’ knowledge base as needed — students design or choose a method to collect data and information and then analyze, evaluate, and select relevant and credible evidence to develop a logical, well-reasoned argument or aesthetic rationale that results in an academic paper of 4,000–5,000 words. The argument or aesthetic rationale must directly address the research question/project goal. Upon completion of the academic paper, students will present their research question/project goal, method/process, and conclusions to an oral defense panel. If the academic paper is accompanied by an additional piece of scholarly work (e.g., performance, exhibit, product), this work is not formally assessed but is viewed by the teacher and oral defense panelists to contextualize the student’s research.

Academic Paper (AP)

The body of the academic paper must contain the elements listed in the following table. These elements should be presented in a style and structure appropriate to the discipline in which the topic resides (e.g., psychology, science, music). Abstracts, if included, are not considered part of the body of the academic paper and are not assessed. The academic paper must be written for an educated, non-expert audience.

Required Element	Description
Introduction and Literature Review	Introduces research question/project goal and reviews previous work in the field. Synthesizes the varying perspectives in the scholarly literature to situate the research question/project goal within a gap in the current field of knowledge.
Method, Process, or Approach	Explains and provides justification for the chosen method, process, or approach and its alignment with the research question.
Results, Product, or Findings	Presents the findings, evidence, results, or performance/exhibit/product generated by the research method.
Discussion, Analysis, and/or Evaluation	Interprets the significance of the results, performance/exhibit/product, or findings; explores connections to original research question/project goal.
Conclusion and Future Directions	Articulates the new understanding generated through the research process and the limitations of the conclusion or creative work. Discusses the implications to the community of practice. Identifies areas for future research.
Bibliography	Provides a complete list of sources cited and consulted in the appropriate disciplinary style.

The nature of students' inquiries is open-ended in that students' approaches to their investigations and the type of research they conduct may vary widely. Students must avoid plagiarism by acknowledging, attributing, and/or citing sources throughout the paper and by including a bibliography (see the AP Capstone Policy on Plagiarism and Falsification or Fabrication of Information). **Throughout the year and prior to submission, teachers and students should constantly check work for plagiarism and ensure that no unacceptable use of generative AI tools were used** (see the AP Capstone Policy on Use of Generative Artificial Intelligence (AI)). Students must also observe ethical practices when gathering information through means such as surveys, interviews, or focus groups, and be prepared to sign agreements with individuals, institutions, or organizations that provide primary and private data. Students should also be prepared to obtain Institutional Review Board (IRB) approval if engaging in research involving human subjects when required. Graphs, figures, data tables, images, footnoted citations, appendices, abstract, and the bibliography are not part of the total word count for the academic paper. Word count does include titles, sub-headings, and in-text citations.

Presentation and Oral Defense (POD)

All students will develop a 15–20 minute presentation (using appropriate media) and deliver it to an oral defense panel of three evaluators. It is suggested that students' oral presentation be no longer than 15 minutes to ensure at least 5 minutes for the oral defense. The presentation and oral defense should take no longer than 15–20 minutes total. Like the academic paper, the presentation provides an opportunity for students to showcase their research by communicating effectively and succinctly to an audience of educated, non-experts. Students whose academic paper is accompanied by an additional piece of scholarly work (e.g., performance, exhibit, product) must arrange for the teacher and panelists to view this work prior to the presentation and oral defense.

The presentation should distill the student's argument by:

- identifying the research question/project goal
- describing and explaining initial assumptions and hypotheses/ideas and their relation to the student's personal conclusion
- providing the rationale for choices made during the research process (cite or attribute sources or evidence as needed)
- explaining the research process/method, evidence generated, conclusions, and implications
- engaging the audience through a dynamic use of design, delivery, and performance techniques

Following the presentation, an oral defense panel will ask three questions of the student. The panel must consist of the AP Research teacher and two additional adult panel members (preferably expert advisers or discipline-specific experts) chosen by the AP Research teacher. This evaluative component is designed to assess a student's articulation of the inquiry process, understanding of results and conclusions, and reflection on the research experience.

Three of these questions must be chosen from the oral defense question list, which is provided to students in advance. The oral defense panel should ask one question pertaining to the student's research or inquiry process, one question focused on the student's depth of understanding, and one question about the student's reflection throughout the inquiry process as evidenced in their process and reflection portfolio (PREP). The wording of the questions may be tailored to a student's specific project. In addition, a fourth question is permitted to clarify one of the student's answers to a previous question. Any additional questions beyond the fourth question are at the discretion of the teacher but should not be used in scoring the oral defense.

Teachers should offer students presentation guidelines including best practices for delivering information (e.g., vocal and movement techniques, use of multimedia or visual aids). It is strongly suggested that students be given opportunities to practice in front of their peers to gather feedback and learn how to respond succinctly to questions and critiques. Such practice is important to assist students in preparing for their presentations and oral defense.

Oral Defense Questions

Research/Inquiry Process [choices made throughout the research process]

1. How did your initial exploration of the scholarly conversation lead to your final research question/project goal?
2. How did your review of the methods used by scholars in the field inform your selection of a research method/process that is aligned with your research question/project goal?
3. How did the choices you made when designing or implementing your research method impact your research process?
4. How did you determine which results generated by your research method were most important in informing your new understanding?

Depth of Understanding [relating student data/results to the new understanding]

1. How does your new understanding address a gap in the scholarly conversation?
2. How did the limitations of your method or data influence your new understanding?
3. What are the real-world implications or consequences related to your findings?
4. How do your findings provide directions for future research in the field?

Reflection Throughout the Inquiry Process [how the inquiry process informs growth and self-awareness as a researcher]

1. Think back to the initial curiosity that sparked your inquiry. What other curiosities do you have and how has this process prepared you to explore them?
2. How did you handle the uncertainty of the research process?
3. If you could revisit your research process, what would you do differently and why?
4. What was the most important research skill you developed as a result of this process, and how might you apply it to your future endeavors?
5. How did your expert adviser facilitate your deeper understanding of the research process?

Note: This question should only be asked if the student engaged with an expert adviser.

Role of the Teacher in Performance Tasks

Performance Tasks in the AP Capstone courses are summative assessments and contribute to the AP score. Teachers must adhere to the following rules when students are working on these tasks. Teachers of the AP Capstone courses manage the assessment components and all related processes. Teachers should be transparent with students about the role of the teacher, other staff, and/or expert advisers in these courses and what individuals providing guidance to students should and should not do.

AP Research: Role of the Teacher	
DO	DO NOT
Make sure students, expert advisors, and panel members are aware of the timeline, assessment task components, and scoring criteria/rubrics.	Assign, provide, distribute, or generate research questions or project goals for students.
Hold work-in-progress meetings with students to review their authentic work in their PREP, ask questions, monitor, discuss, and provide guidance on progress.	Write, revise, amend, or correct anything that is part of, or contributes to, the final work submitted for assessment.
Direct the students to the areas of the rubrics where their work may need improvement.	
Engage in whole class teaching of skills pertinent to the performance task as students are working on their research and/or presentations.	Provide specific, directive feedback to individuals or groups (teachers must not tell students what to do).
Suggest possible resources that can help students further their research (e.g., additional data bases, local expert advisers, library assistance) – so that students are not disadvantaged in their exploration.	Conduct research or provide specific sources, articles or evidence for students.
Provide effective guidelines for peer-to-peer review and feedback.	Proofread or copyedit student work for students.
Co-ordinate opportunities for students to engage in peer review.	
Provide students with the list of possible oral defense questions.	Identify the exact questions a student will be asked prior to his or her defense. Students should be prepared to answer every one of the oral defense questions.
Provide any necessary assistance to students in finding external expert advisers if warranted (experts in the field or discipline).	Violate local, district, state and/or country policies regarding student engagement with external expert advisers.
Check AP deadline and monitor student submissions in the digital portfolio. Ensure students meet deadlines, work is submitted to the correct place for the Academic Paper (AP), and has been checked for plagiarism and generative AI use.	Leave students to submit work unsupervised.
Score student presentations and oral defense (POD) and submit the scores in the AP Digital Portfolio by the May 10 at 11:59 p.m. ET submission deadline.	Release these scores to students.
Review final student work and affirm to authenticity in the AP Digital Portfolio by May 10 at 11.59 p.m. ET.	Forget to complete affirmations in the AP Digital Portfolio. NOTE: Students will receive a zero for the Academic Paper if the affirmations are not completed by the teacher.

Role of Expert Advisers in the Academic Paper

Should a student require such, they may engage in communication with one or more expert advisers. Expert advisers may be drawn from

- the faculty
- the community
- local or nonlocal businesses and industries
- higher education institutions

Expert advisers represent a resource for teachers and students in a variety of areas (i.e., expertise in specific disciplines, fields, or methods). Teachers must ensure students are transparent with any expert advisers about what they should and should not do.

AP Research: Role of Expert Advisers	
DO	DO NOT
Engage in conversation with guiding questions and provide general feedback to students regarding their choice of research questions/project goals, data- or information-collection methods, and analysis strategies.	Generate research questions/project goals for students. Provide unsolicited help (i.e., students must initiate conversations that call for expert adviser feedback, such as asking a question to which the expert adviser can then respond).
May hold work-in-progress meetings with students to ask questions, monitor, discuss, and provide guidance on progress.	Write, revise, amend, or correct anything that is part of, or contributes to, the final work submitted for assessment. Provide specific, directive feedback to individuals (expert advisers must not tell students what to do).
Suggest possible resources that can help students further their research (e.g., additional data bases, local expert advisers, library assistance) – so that students are not disadvantaged in their exploration.	Conduct research or provide specific sources, articles or evidence for students.
Help students with the mechanics of the research process (e.g., strategizing to find answers to questions or helping them understand how to access resources).	Provide unsolicited help (i.e., students must initiate conversations that call for expert adviser feedback, such as asking a question to which the expert adviser can then respond).
Provide general feedback to students about elements of their papers or presentations that need improvement. Direct the students to the areas of the rubrics where their work may need improvement.	Write, revise, amend, or correct student work (anything that is part of, or contributes to, the final work submitted for assessment). Provide or identify the exact questions a student will be asked prior to his or her defense (i.e., students should be prepared to answer every one of the oral defense questions that have already been provided to the students in advance).

Reproducibles for Students

The following ten pages contain reproducible versions of the inquiry proposal form, performance task description, and advising tips for AP Capstone.

Inquiry Proposal Form

1. State your research question and/or project goal.
2. Describe three key studies that have informed your understanding of the scholarly conversation surrounding your topic.
3. Identify the gap addressed by your proposed research, and explain how the gap is situated into the scholarly conversation. Provide sources to justify the gap your proposed research is addressing.
4. Describe your chosen or developed research method and defend its alignment with your research question.
5. Identify additional approval processes (check all that apply):
 - ☐ Human subjects [requires additional IRB review and approval if student wants to publish and/or publicly present]
 - ☐ Animal subjects [requires additional review or approval by school or district processes]
 - ☐ Harmful microorganisms [requires additional review or approval by school or district processes]
 - ☐ Hazardous materials [requires additional review or approval by school or district processes]
 - ☐ No additional review or approvals required
6. Explain how your proposed method complies with ethical research practices.
7. Describe the data or additional scholarly work that will be generated to answer your proposed research question or achieve your project goal.

(continues)

- 8. Describe the way you will analyze the data or additional scholarly work generated by your method and justify its alignment with your research question or project goal.**

- 9. List any equipment, resources, and permissions needed to collect data or information. Attach the initial drafts that apply to your proposal if engaged in human subject research: informed consent forms; surveys, interview questions, questionnaires, or other data gathering forms; or letters/flyers that will be distributed to study subjects.**

- 10. Describe the anticipated logistical and personnel challenges for your research project (to collect and analyze data or to pursue research methods appropriate to a paper that supports a performance/exhibit/product).**

- 11. Provide a brief timeline that outlines your process from now through project completion.**

- 12. Discuss the anticipated value and/or broader implications of your research project.**

Teacher's feedback:

Teacher's Approval (signature): _____

AP Research Performance Task: Academic Paper and Presentation and Oral Defense

Task Overview

In AP Research, you will further the skills you acquired in the AP Seminar course by learning research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing information as you address a research question/project goal. To that end, you will develop a research question/project goal on a topic of your choosing in an area of personal interest. You will submit an inquiry proposal (see Inquiry Proposal Form, pp. 54-55) for the teacher's feedback to help you refine your research question/project goal/method and ultimately approve your proposal prior to you engaging in the work.

With assistance from the teacher, you may identify one or more expert adviser(s) — internal or external to the school — to serve as an additional resource. These individuals should be experts in the chosen discipline or field that you are investigating or in the research method that you choose to employ.

Under the teacher's guidance — and using the expert advisers' knowledge base as needed — you will design or choose a method to collect data and information and then analyze, evaluate, and select relevant and credible evidence to develop a logical, well-reasoned argument or aesthetic rationale (directly addressing your research question/project goal) that results in an academic paper of 4,000–5,000 words.

In addition to completing your research paper, you will:

- arrange for a viewing of additional scholarly work (where applicable)
- deliver a presentation (using appropriate media)
- defend your research design, approach, and findings to an oral defense panel

Task Directions (Proposal Process, Academic Paper, Presentation and Oral Defense)

1. Question, Proposal, and Research

- › Identify a research question/project goal of your own choosing in an area of personal interest.
- › Gather initial information for background and context on your research question/ project goal and area of personal interest.
- › Choose or design a research method and identify resources to develop your research proposal.
- › Submit a proposal form to receive approval prior to starting your inquiry.

(continues)

- › Be prepared to obtain Institutional Review Board (IRB) approval if engaging in research involving human subjects when required.
- › Gather additional information, data, and evidence through a carefully chosen and aligned research method.
- › Describe what you hope to learn, achieve, and/or create as a result of your inquiry.

With your teacher's assistance, connect with one or more discipline-specific expert advisers (internal or external to the school) to advise you through the development of your inquiry processes (if your inquiry warrants the use of a field expert or discipline-specific expert adviser).

Maintain a portfolio of your inquiry processes, your communication with your teacher and expert adviser(s), and reflections on your thought processes and any successes and challenges you encounter. Your teacher will be required to affirm to your completion of your PREP and routine progress checks once you have submitted your work as final. **NOTE: Students will receive a zero for the Academic Paper if the affirmations are not completed by the teacher.**

2. Academic Paper (75% of the AP Research score)

- › Analyze, evaluate, and select evidence to develop a logical, well-reasoned argument or aesthetic rationale and conclusion in an academic paper of 4,000–5,000 words that addresses the research question/project goal and conveys your perspective and new understanding as a result of engaging in your research process.
- › You must avoid plagiarism by acknowledging, attributing, and/or citing sources throughout the paper and by including a bibliography. **Throughout the year and prior to submission, teachers and you should constantly check work for plagiarism** (see the AP Capstone Policy on Plagiarism and Falsification or Fabrication of Information). **Teachers and you should constantly check work to ensure that no unacceptable use of generative AI tools were used** (see the AP Capstone Policy on Use of Generative Artificial Intelligence (AI)).
- › Students must also observe ethical practices when gathering information through means such as surveys, interviews, or focus groups, and be prepared to sign agreements with individuals, institutions, or organizations that provide primary and private data.
- › The body of the academic paper must contain the elements listed in the following table. These elements should be presented in a style and structure appropriate to the discipline in which the topic resides (e.g., psychology, science, music).
- › Graphs, figures, data tables, images, appendices, abstract, footnoted citations, and the bibliography are not part of the total word count for the academic paper. Word count does include titles, sub-headings, and in-text citations.
- › Abstracts, if included, are not considered part of the body of the academic paper and are not assessed. The academic paper must be written for an educated, non-expert audience.
- › Once your paper is completed, remove any references to your name, school, and teacher, and upload your document to the AP Digital Portfolio as directed by your teacher.

Required Element	Description
Introduction and Literature Review	Introduces research question/project goal and reviews previous work in the field.
	Synthesizes the varying perspectives in the scholarly literature to situate the research question/project goal within a gap in the current field of knowledge.
Method, Process, or Approach	Explains and provides justification for the chosen method, process, or approach and its alignment with the research question.

(continues)

Required Element	Description
Results, Product, or Findings	Presents the findings, evidence, results, or performance/exhibit/product generated by the research method.
Discussion, Analysis, and/or Evaluation	Interprets the significance of the results, performance/exhibit/product, or findings; explores connections to original research question/project goal.
Conclusion and Future Directions	<p>Articulates the new understanding generated through the research process and the limitations of the conclusion or creative work.</p> <p>Discusses the implications to the community of practice.</p> <p>Identifies areas for future research.</p>
Bibliography	Provides a complete list of sources cited and consulted in the appropriate disciplinary style.

Required Element	Description
Results, Product, or Findings	Presents the findings, evidence, results, or performance/exhibit/product generated by the research method.
Discussion, Analysis, and/or Evaluation	Interprets the significance of the results, performance/exhibit/product, or findings; explores connections to original research question/project goal.
Conclusion and Future Directions	<p>Articulates the new understanding generated through the research process and the limitations of the conclusion or creative work.</p> <p>Discusses the implications to the community of practice.</p> <p>Identifies areas for future research.</p>
Bibliography	Provides a complete list of sources cited and consulted in the appropriate disciplinary style.

3. Presentation and Oral Defense (25% of the AP Research score)

Upon completion of your Academic Paper, you will develop a 15–20 minute presentation (using appropriate media) and deliver it to an oral defense panel of three evaluators. Like the academic paper, the presentation provides an opportunity for you to showcase your research by communicating effectively and succinctly to an audience of educated, non-experts. If your academic paper is accompanied by an additional piece of scholarly work (e.g., performance, exhibit, product), you must arrange for the teacher and panelists to view this work prior to the presentation and oral defense. Your oral presentation should be no longer than 15 minutes to ensure at least 5 minutes for your oral defense.

The presentation should distill your research by:

- › Identifying your research question/project goal
- › describing and explaining initial assumptions and hypotheses/ideas and their relation to the your personal conclusion
- › providing the rationale for choices made during the research process (cite or attribute sources or evidence as needed)
- › explaining the research process/method, evidence generated, conclusions, and implications
- › engaging the audience through a dynamic use of design, delivery, and performance techniques
- › using a medium and design specifically tailored to engage your audience and illustrate your points

Following the presentation, an oral defense panel will ask three questions of the student. The panel will consist of the AP Research teacher and two additional adult panel members (preferably expert advisers or discipline-specific experts) chosen by the AP Research teacher. This evaluative component is designed to assess your articulation of the inquiry process, understanding of your results and conclusions, and reflection on your research experience.

Three of these questions will be chosen from the following oral defense question list. The oral defense panel will ask one question pertaining to your research or inquiry process, one question focused on your depth of understanding, and one question about your reflection throughout the inquiry process as evidenced in your process and reflection portfolio (PREP). The wording of the questions may be tailored to your specific project. In addition, a fourth question is permitted if a panel member wants you to clarify one of your answers to a previous question. Any additional questions beyond the fourth question are at the discretion of the teacher but will not be used in scoring the oral defense.

(continues)

Oral Defense Questions

Research/Inquiry Process [choices made throughout the research process]

1. How did your initial exploration of the scholarly conversation lead to your final research question/project goal?
2. How did your review of the methods used by scholars in the field inform your selection of a research method/process that is aligned with your research question/project goal?
3. How did the choices you made when designing or implementing your research method impact your research process?
4. How did you determine which results generated by your research method were most important in informing your new understanding?

Depth of Understanding [relating student data/results to the new understanding]

1. How does your new understanding address a gap in the scholarly conversation?
2. How did the limitations of your method or data influence your new understanding?
3. What are the real-world implications or consequences related to your findings?
4. How do your findings provide directions for future research in the field?

Reflection Throughout the Inquiry Process [how the inquiry process informs growth and self-awareness as a researcher]

1. Think back to the initial curiosity that sparked your inquiry. What other curiosities do you have and how has this process prepared you to explore them?
2. How did you handle the uncertainty of the research process?
3. If you could revisit your research process, what would you do differently and why?
4. What was the most important research skill you developed as a result of this process, and how might you apply it to your future endeavors?
5. How did your expert adviser facilitate your deeper understanding of the research process?

Note: This question should only be asked if the student engaged with an expert adviser.

(continues)

Role of the Teacher in Performance Tasks

Performance Tasks in the AP Capstone courses are summative assessments and contribute to the AP score. Submissions must be entirely the student's own work. Teachers must adhere to the following rules when students are working on these tasks. Teachers of the AP Capstone courses manage the assessment components and all related processes. Teachers should be transparent with students about the role of the teacher, other staff, and/or expert advisers in these courses and what individuals providing guidance to students should and should not do.

AP Research: Role of the Teacher	
DO	DO NOT
Make sure students, expert advisors, and panel members are aware of the timeline, assessment task components, and scoring criteria/rubrics.	Assign, provide, distribute, or generate research questions or project goals for students.
Hold work-in-progress meetings with students to ask questions, monitor, discuss, and provide guidance on progress.	Write, revise, amend, or correct anything that is part of, or contributes to, the final work submitted for assessment.
Direct the students to the areas of the rubrics where their work may need improvement.	
Engage in whole class teaching of skills pertinent to the performance task as students are working on their research and/or presentations.	Provide specific, directive feedback to individuals or groups (teachers must not tell students what to do).
Suggest possible resources that can help students further their research (e.g., additional data bases, local expert advisers, library assistance) – so that students are not disadvantaged in their exploration.	Conduct research or provide specific sources, articles or evidence for students.
Provide effective guidelines for peer-to-peer review and feedback.	Proofread or copyedit student work for students.
Co-ordinate opportunities for students to engage in peer review.	
Provide students with the list of possible oral defense questions.	Identify the exact questions a student will be asked prior to his or her defense. Students should be prepared to answer every one of the oral defense questions.
Provide any necessary assistance to students in finding external expert advisers if warranted (experts in the field or discipline).	Violate local, district, state and/or country policies regarding student engagement with external expert advisers.
Check AP deadline and monitor student submissions in the digital portfolio. Ensure students meet deadlines, work is submitted to the correct place for the Academic Paper (AP), and has been checked for plagiarism and generative AI use.	Leave students to submit work unsupervised.

(continues)

AP Research: Role of the Teacher**DO**

Score student presentations and oral defense (POD) and submit the scores in the AP Digital Portfolio by the May 10 at 11:59 p.m. ET submission deadline.

Review final student work and affirm to authenticity in the Digital Portfolio by May 10 at 11:59 p.m. ET.

DO NOT

Release these scores to students.

Forget to complete affirmations in the Digital Portfolio. **NOTE: Students will receive a zero for the Academic Paper if the affirmations are not completed by the teacher.**

(continues)

Role of Expert Advisers in the Academic Paper

Should a student require such, they may engage in communication with one or more expert advisers. Expert advisers may be drawn from

- the faculty
- the community
- local or nonlocal businesses and industries
- higher education institutions

Expert advisers represent a resource for teachers and students in a variety of areas (i.e., expertise in specific disciplines, fields, or methods). Teachers must ensure students are transparent with any expert advisers about what they should and should not do.

AP Research: Role of Expert Advisers	
DO	DO NOT
Engage in conversation with guiding questions and provide general feedback to students regarding their choice of research questions/project goals, data- or information-collection methods, and analysis strategies.	Generate research questions/project goals for students. Provide unsolicited help (i.e., students must initiate conversations that call for expert adviser feedback, such as asking a question to which the expert adviser can then respond).
May hold work-in-progress meetings with students to ask questions, monitor, discuss, and provide guidance on progress.	Write, revise, amend, or correct anything that is part of, or contributes to, the final work submitted for assessment. Provide specific, directive feedback to individuals (expert advisers must not tell students what to do).
Suggest possible resources that can help students further their research (e.g., additional data bases, local expert advisers, library assistance) – so that students are not disadvantaged in their exploration.	Conduct research or provide specific sources, articles or evidence for students.
Help students with the mechanics of the research process (e.g., strategizing to find answers to questions or helping them understand how to access resources).	Provide unsolicited help (i.e., students must initiate conversations that call for expert adviser feedback, such as asking a question to which the expert adviser can then respond).
Provide general feedback to students about elements of their papers or presentations that need improvement. Direct the students to the areas of the rubrics where their work may need improvement.	Write, revise, amend, or correct student work (anything that is part of, or contributes to, the final work submitted for assessment). Provide or identify the exact questions a student will be asked prior to his or her defense (i.e., students should be prepared to answer every one of the oral defense questions that have already been provided to the students in advance).

AP Capstone™ Policy on Plagiarism and Falsification or Fabrication of Information

A student who fails to acknowledge the source or author of any and all information or evidence taken from the work of someone else through citation, attribution or reference in the body of the work, or through a bibliographic entry, will receive a score of 0 on that particular component of the AP Seminar and/or AP Research Performance Task. In AP Seminar, a team of students that fails to properly acknowledge sources or authors on the Team Multimedia Presentation will receive a group score of 0 for that component of the Team Project and Presentation.

A student who incorporates falsified or fabricated information (e.g. evidence, data, sources, and/or authors) will receive a score of 0 on that particular component of the AP Seminar and/or AP Research Performance Task. In AP Seminar, a team of students that incorporates falsified or fabricated information in the Team Multimedia Presentation will receive a group score of 0 for that component of the Team Project and Presentation.

AP Capstone Policy on Use of Generative Artificial Intelligence (AI)

Definition of Generative AI in AP Capstone Courses

Generative AI tools use predictive technology to produce new text, charts, images, audio, video etc. This includes not only ChatGPT and similar Large Language Models (LLMs), but also many writing assistants or plug-ins that are built on this or similar AI technologies.

Policy on Acceptable Generative AI Use in AP Capstone Courses

Generative AI tools must be used ethically, responsibly, and intentionally to support student learning, not to bypass it. Accordingly, all performance tasks submitted in AP Seminar and AP Research must be the student's own work. While students are permitted to use generative AI tools consistent with this policy, their use is optional and not mandatory.

Students can use generative AI tools as optional aids for exploration of potential topics of inquiry, initial searches for sources of information, confirming their understanding of a complex text, or checking their writing — but not rewriting — for grammar and tone. However, students must read primary and secondary sources directly, perform their own analysis and synthesis of evidence, and make their own choices on how to communicate effectively both in their writing and presentations. Students may not use generative AI tools to write or create their assignments for them. It remains the student's responsibility to engage deeply with credible, valid sources and integrate diverse perspectives when working on the performance tasks. Students must complete interim "checkpoints" with their teacher to demonstrate genuine engagement with the tasks.

The following table describes what constitutes acceptable use of generative AI at different phases of the work to complete the performance tasks.

(continues)

Phase of Work	Acceptable Use	Not Acceptable Use
Exploring ideas to develop and refine an area of inquiry	Using generative AI tools to get a sense of existing debates on an issue, potential sub-topics, or what is generally already widely known about a topic.	Taking the output of generative AI tools uncritically, such as using AI to generate a research question or thesis, without engaging with the actual research or relying solely on generative AI as a source of information about a topic
Finding sources	<ul style="list-style-type: none"> Using generative AI to find authors, organizations, publications, or sources that may be pertinent to the area of inquiry, so that the student can then locate and read those perspectives directly. Asking for recommendations on related sources to further explore the topic or address gaps in research. <p>NOTE: Not all AI tools are the same in terms of the likelihood they will provide output with credible sources. For example, AI-powered search engines for research databases draw from vetted sources, whereas ChatGPT does not necessarily differentiate. Students must review output with a skeptical, critical eye to be sure any suggested sources are real, credible, and relevant to their inquiry.</p>	Using a list of sources generated by AI without going to the original sources and reviewing the content.
Summarizing and/or interpreting sources	<p>Using generative AI to help develop understanding of complex texts by:</p> <ul style="list-style-type: none"> Requesting help with understanding complex vocabulary or sentence structures in a source. Asking for clarification on a confusing concept or passage in a source. <p>NOTE: Students should <u>always</u> read the original text of the sources they intend to use to ensure they are accurately understanding and utilizing the evidence from those sources in their work</p>	<ul style="list-style-type: none"> Generating a summary or paraphrasing of the source instead of reading it. Requesting direct quotes or citations from a source to use as evidence without independently identifying them. Copying and pasting AI generated source summaries into the final draft.
Synthesizing ideas and information from sources into a literature review, report, or argument	<p>No acceptable use.</p> <p>NOTE: Students will be asked questions in either their PREP-based in-progress meetings (AP Research) or in the checkpoints (AP Seminar) to ensure they have done this work themselves.</p>	<p>Asking generative AI to:</p> <ul style="list-style-type: none"> Compare or contrast sources and/or generate a review of literature. Synthesize common or contrasting elements from within a source or across multiple sources. Develop statements or paragraphs that put sources in conversation.

(continues)

Phase of Work	Acceptable Use	Not Acceptable Use
Developing an aligned method for their Research (AP Research only)	Summarizing commonly used methods in discipline-specific fields or reviewing benefits and drawbacks of different generic methods or methodologies. NOTE: Students will be asked questions in their PREP-based in-progress meetings (AP Research) to ensure that they have done this work themselves.	Using generative AI to determine the appropriate method for an individual student's research and/or providing rationales for a specific method.
Producing, summarizing and/or interpreting data (AP Research only)	No acceptable use. NOTE: Students will be asked questions in their PREP-based in-progress meetings (AP Research) to ensure that they have done this work themselves.	<ul style="list-style-type: none"> Using generative AI to generate data (this would count as falsified and/or fabricated data). <i>The only exception would be if use of generative AI tools is the subject of the inquiry. In this case, using generative AI to generate data would be part of the method.</i> Using AI to summarize or discuss their results or data.
Developing displays of data (AP Research only)	Using generative AI to create charts/ graphs or other representations of data collected and assembled by the student.	Using generative AI to produce or generate the data itself. <i>See exception noted above.</i>
Drafting or outlining a paper	Seeking guidance on general best practices in how to structure a research paper, essay, or report. NOTE: Students will be asked questions (on the reasoning underpinning their choices for structure and content) in either their PREP-based in-progress meetings (AP Research) or the checkpoints (AP Seminar) to ensure that they have done this work themselves.	<ul style="list-style-type: none"> Asking generative AI to produce an outline or draft of a specific paper. Requesting generative AI to write all or part of the paper. Using writing generated by AI in the final draft.
Revising a paper	<ul style="list-style-type: none"> Using spell or grammar checkers. Asking for feedback on style and tone (students must make deliberate choices on what feedback to incorporate). 	<ul style="list-style-type: none"> Accepting AI-generated suggestions for revisions of written work without critically evaluating such contributions. Incorporating into student submissions new sections of text suggested by generative AI.
Creating Citations / Bibliography	<ul style="list-style-type: none"> Seeking guidance on how to cite or check citations. Generating a draft of the bibliographic listing of citations or checking the format of a student-generated draft of the bibliographic listing of citations. 	<ul style="list-style-type: none"> Using AI to generate citations without having directly studied the original sources. Relying on generative AI to create the bibliographic listing of citations without then checking the accuracy of the format.

(continues)

Phase of Work	Acceptable Use	Not Acceptable Use
Developing Presentations	<ul style="list-style-type: none"> › Seeking general guidance on effective presentations. › Generating initial ideas for key points, sequence, or visuals for presentations. 	<ul style="list-style-type: none"> › Uncritically using AI to produce the key points, visuals, or structure for presentations. › Using AI to generate a script that is memorized or read for the presentation.
Preparing for Oral Defense	No acceptable use.	Using AI to generate possible answers to potential oral defense questions (and memorizing or reading them).

Required Checkpoints and Affirmations

To ensure students aren't using generative AI to bypass work, students must complete interim "checkpoints" with their teacher to demonstrate genuine engagement with the tasks. **AP Seminar and AP Research students will need to complete the relevant checkpoints successfully to receive a score for their performance tasks. Teachers must affirm, to the best of their knowledge, that students completed the checkpoints authentically in the AP Digital Portfolio. Failure to complete the checkpoints will result in a score of zero on the associated task.**

- In AP Seminar, teachers assess the authenticity of student work based on checkpoints that take the form of short conversations with students during which students make their thinking and decision-making visible (similar to an oral defense). These checkpoints should occur during the sources and research phase (IRR and IWA), and argument outline phase (IWA only).
- In AP Research, students must complete "checkpoints" in the form of in-progress meetings and work in the Process and Reflection Portfolio (PREP).

AP Seminar and AP Research teachers are also required to affirm, to the best of their knowledge, that the student's final submission is authentic student work.

College Board reserves the right to investigate submissions where there is evidence of the inappropriate use of generative AI as an academic integrity violation and request from students copies of their interim work for review.

AP Capstone Tips for Students

1. Be prepared to perform your best on your assessment! Your academic performance provides evidence of your academic achievements as a result of hard work in AP.
2. Send your AP scores! During AP Exam registration, be sure to indicate the code for the colleges you want to receive your scores. This alerts them of your interest as a potential applicant and invites college recruiters to reach out to you to learn more about your AP Capstone experience and future research interests. The volume of AP scores received by postsecondary campuses helps drive support for credit and placement policies.
3. Indicate your participation in AP Capstone and your future research interests in college applications. It might prompt further consideration of your application and may even yield a scholarship possibility.
4. Be prepared to succinctly describe your AP Capstone experience and give a summary of your research and findings. This brief conceptual summary will help you advocate for college credit/placement and allow you to capture the attention of colleges offering undergraduate research opportunities that you may want to explore.
5. Check the AP Capstone website for more information about the colleges and universities that support the AP Capstone program and offer credit/placement for qualifying scores in AP Seminar and AP Research.

AP Research Glossary

alignment — Cohesion between the focus of an inquiry, the method of collecting information, the process of analysis of the information, and the conclusions made to increase understanding of that focus

argument — A claim or thesis that conveys a perspective developed through a line of reasoning and supported by evidence

assumption — A belief regarded as true and often unstated

author — One who creates a work (e.g., article; research study; foundational, literary, or philosophical text; speech, broadcast, or personal account; artistic work or performance) that conveys a perspective and can be examined

bias — A personal opinion, belief, or value that may influence one's judgment, perspective, or claim

claim — A statement made about an issue that asserts a perspective

coding — A method for reducing data sets into categories or numbers for the purpose of analyzing emerging themes, patterns, or trends

commentary — Discussion and analysis of evidence in relation to the claim that may identify patterns, describe trends, and/or explain relationships

complex issue — Issue involving many facets or perspectives that must be understood in order to address it

concession — Acknowledgment and acceptance of an opposing or different view

conclusion — Understanding resulting from analysis of evidence

context — The intent, audience, purpose, bias, situatedness, and/or background (larger environment) of a source or reference

conventions — The stylistic features of writing (e.g., grammar, usage, mechanics)

counterargument — An opposing perspective, idea, or theory supported by evidence

credibility — The degree to which a source is believable and trustworthy

cross-curricular — Goes beyond the traditional boundary of a single content area or discipline

deductive — A type of reasoning that constructs general propositions that are supported with evidence or cases

evidence — Information (e.g., data, quotations, excerpts from texts) used as proof to support a claim or thesis

fallacy — Evidence or reasoning that is false or in error

feasible — Able to be accomplished within the time, resources, and processes available

implication — A possible future effect or result

inductive — A type of reasoning that presents cases or evidence that lead to a logical conclusion

inquiry — A process for seeking truth, information, or knowledge through a study, research investigation, or artistic endeavor/work

interdisciplinary — Involving two or more areas of knowledge

lens — Filter through which an issue or topic is considered or examined

limitation — A boundary or point at which an argument or generalization is no longer valid

line of reasoning — Arrangement of claims and evidence that leads to a conclusion

literature — The foundational and current texts of a field or discipline of study

material culture — Physical objects, resources, and spaces that people use to define their culture

perspective — A point of view conveyed through an argument

plagiarism — Failure to acknowledge, attribute, and/or cite any ideas or evidence taken from another source

point of view — A position or standpoint on a topic or issue

primary research — The planning and implementation of an inquiry to gather firsthand data or information pertaining to a topic of interest

primary source — An original source of information about a topic (e.g., study, artifact, data set, interview, article)

qualification — A condition or exception

qualitative — Having to do with text, narrative, or descriptions

quantitative — Having to do with numbers, amounts, or quantities

rebuttal — Contradicting an opposing perspective by providing alternate, more convincing evidence

refutation — Disproving an opposing perspective by providing counterclaims or counterevidence

reliability — The extent to which something can be trusted to be accurate

resolution — The act of solving a problem or dispute

secondary research — The process of gathering data or information about a topic of interest from previously published sources

secondary source — A commentary about one or more primary sources that provides additional insight, opinions, and/or interpretation about the primary source data, study, or artifacts

solution — A means of answering a question or addressing a problem or issue

text — Something composed (e.g., articles; research studies; foundational, literary, and philosophical texts; speeches, broadcasts, and personal accounts; artistic works and performances) that conveys a perspective and can be examined

thesis — A claim or position on an issue or topic put forward and supported by evidence

tone — The way in which an author expresses an attitude about his or her topic or subject through rhetorical choices

triangulation — Implementing more than one research method and/or gathering more than one type of data set to strengthen the depth of understanding and validity of the findings pertaining to a phenomenon or observation

validity (argument) — The extent to which an argument or claim is logical

validity (research) — The extent to which conclusions of an inquiry accurately address the variables to be measured or align with the authenticity of the observations made

vocal variety — Changing vocal characteristics (e.g., pitch, volume, speed) in order to emphasize ideas, convey emotion or opinion, or achieve other specific purposes

workshopping — Presenting scholarly works to peers for feedback to inform or guide revisions

About the Appendixes

The following pages include useful information and references for students, parents, educators, expert advisers, and colleges:

- **Appendix A: AP Research: QUEST Framework Essential Questions**

A quick-reference list of the overarching AP Research Curriculum Framework big ideas and the essential questions associated with each.

- **Appendix B: AP Research Timeline**

A timeline for teachers and school administrators showing key dates and activities.

AP Research: QUEST Framework Essential Questions



Question and Explore

Challenge and expand the boundaries of your current knowledge.

- What do I want to know, learn, or understand?
 - What questions have yet to be asked?
 - How does my research question shape how I go about trying to answer it?
 - How does my project goal shape the research or inquiry I engage in to achieve it?
 - What information/evidence do I need to answer my research question?
-



Understand and Analyze

Contextualize arguments and comprehend authors' claims.

- What strategies will help me comprehend a text?
 - What is the main idea of the argument or artistic work, and what reasoning does the author use to develop it?
 - What biases may the author have that influence his or her perspective?
 - Does this argument acknowledge other perspectives?
 - How can I assess the quality or strength of others' research, products, or artistic works?
-



Evaluate Multiple Perspectives

Consider individual perspectives and the larger conversation of varied points of view.

- How might others see a problem or issue differently?
 - What patterns or trends can be identified among the arguments about this issue?
 - What are the implications and/or consequences of accepting or rejecting a particular argument?
 - How can I connect the multiple arguments? What other issues, questions, or topics do they relate to?
 - How can I explain contradictions within or between arguments?
 - From whose perspective is this information being presented, and how does that affect my evaluation?
-



Synthesize Ideas

Combine knowledge, ideas, and your own perspective into an argument.

- How do I connect and analyze the evidence in order to develop an argument and support a conclusion?
 - Are there other conclusions I should consider?
 - How does my scholarly work emerge from my perspective, design choices, or aesthetic rationale?
 - How do I acknowledge and account for my own biases and assumptions?
 - What is the most appropriate way to acknowledge and attribute the work of others that was used to support my argument?
 - How do I ensure the conclusions I present are my own?
-



Team, Transform, and Transmit

Collaborate, reflect, and communicate your argument in a method suited to your audience.

- How can I best appeal to and engage my audience?
 - What is the best medium or genre through which to reach my audience?
 - How might I adapt my written and oral presentations for different audiences and situations?
 - How might my communication choices affect my credibility with my audience?
 - Which revision strategies are most appropriate to developing and refining my project at different stages?
 - How do I provide feedback that is valuable to others? How do I act upon feedback I have received?
 - How can I benefit from reflecting on my own work?
-

AP Research Timeline

Academic Year 1 AP Seminar instruction begins in the fall

Academic Year 2 AP Research instruction begins in the fall

DATE	ACTIVITY
June–August	AP Research professional learning.
Summer	AP Classroom and AP Registration and Ordering open.
August–September	AP Research instruction begins. Students can access EBSCO and Turnitin through the AP Digital Portfolio once they have enrolled in their AP Research class section in My AP.
October	Preferred deadline for AP coordinators to order AP Exams through AP Registration and Ordering . See AP Central for current deadline.
November 15, 11:59 p.m. ET	Final deadline for the AP coordinator to submit the exam order through AP Registration and Ordering . Exams can be ordered or canceled after this date, although a fee applies in some cases. See AP Central for current deadline.
November 30	Recommended deadline for students to submit and teachers to approve AP Research Proposal Forms.
December	Required online scoring training for AP Research launches.
January 31	Final deadline for new teachers to complete and returning teachers to renew the AP Course Audit .
January–March	Begin scheduling current AP Seminar students for AP Research.
March	Spring course orders and fall order changes deadline for AP coordinators to make final updates to the school's order through AP Registration and Ordering , if needed. Fees may apply. See AP Central for current deadline.
March	Recommended deadline for all AP Research teachers to complete required online scoring training modules.
April 30, 11:59 p.m. ET	Deadline for all student work to be submitted as final in the AP Digital Portfolio .
May 10, 11:59 p.m. ET	Deadline for teachers to submit scores for all presentations and complete affirmations for required checkpoints in the AP Digital Portfolio.
May–June	AP Research teachers should meet AP Seminar students to discuss the course, get students ready to work with an expert adviser, identify a topic of interest, and develop a research question.
July	AP score reports, including AP Capstone awards, released online.

