CollegeBoard

Using College Board Programs to Inform Instruction and Support CCMR

Texas Assessment Conference 2024

Agenda

- The SAT Suite of Assessments
  - Supporting Access to the SAT Suite of Assessments
  - Supporting Student Performance on the SAT Suite of Assessments
- The Student Experience Before Testing
  - Bluebook Testing App
  - Resources to Support Practice and Preparation
- The Student Experience After Testing
  - Accessing Scores – BigFuture School Mobile App
  - Customized Career Insights
  - Career Explorer
  - Connections – Hear from nonprofit institutions
- The SAT Suite of Assessments
  - Supporting Access to the SAT Suite of Assessments
  - Supporting Student Performance on the SAT Suite of Assessments

Instruction, assessments, and future planning with a proven track record of success.

INSTRUCTION

AP COURSES

An array of 40 college-level courses that allow students to pursue their interests and build skills for college and career.

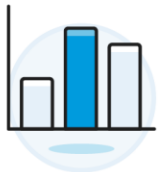
PRE-AP

Grade-level instruction designed to help students develop skills to succeed in AP and other courses.

ASSESSMENT

AP EXAMS

Corresponding exams that give students the opportunity to earn college credit, advanced placement, or both.



SAT SUITE

An integrated system of tests that measure what students are learning in class and what they need to succeed in college and career.

PLANNING

BIGFUTURE

Free planning website that helps students explore careers, learn how to plan and pay for college, and rewards them with scholarships for their efforts.

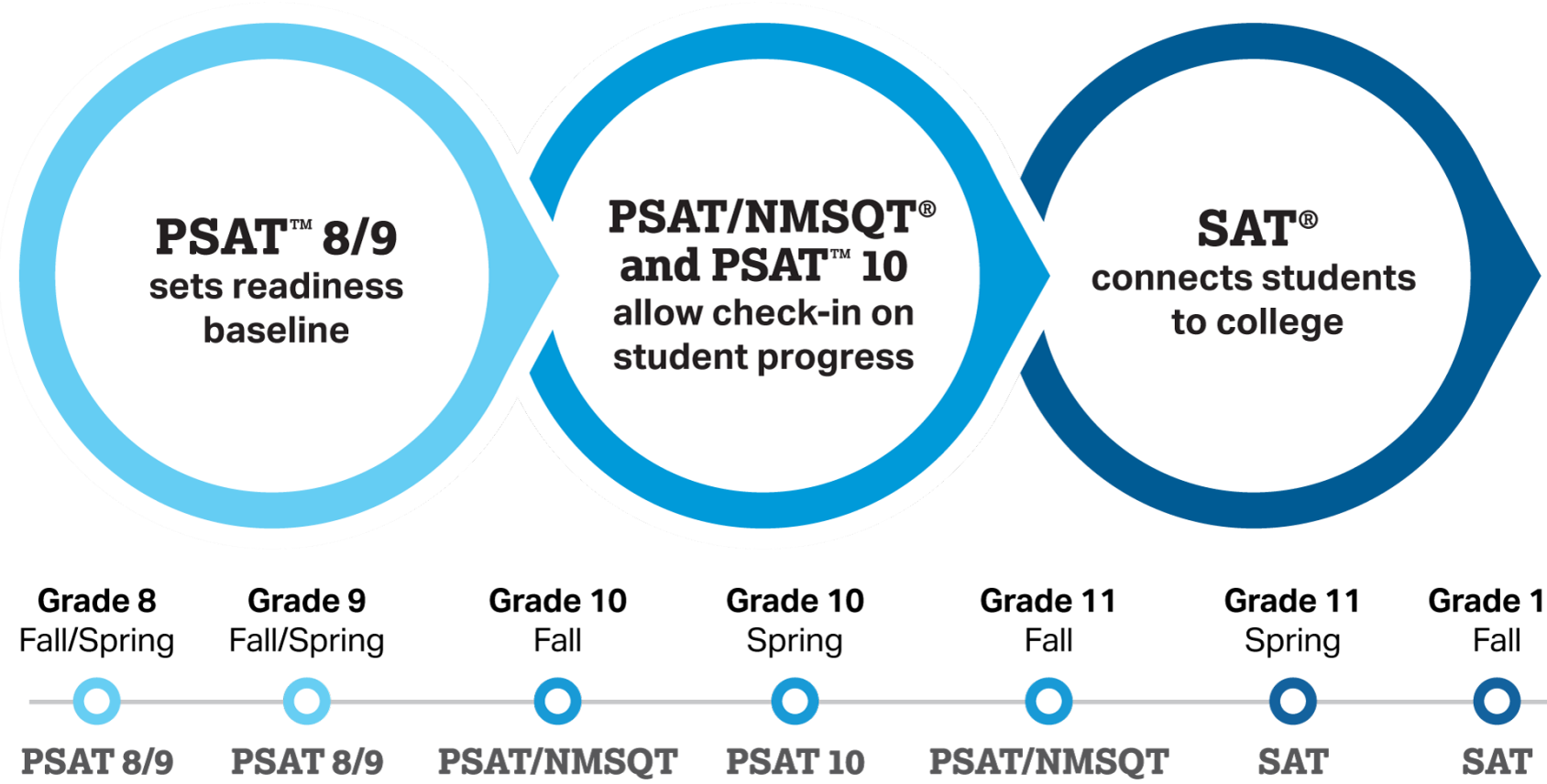
BIGFUTURE SCHOOL

Mobile app providing college and career insights based on students' SAT Suite of Assessment scores.

SAT® Suite

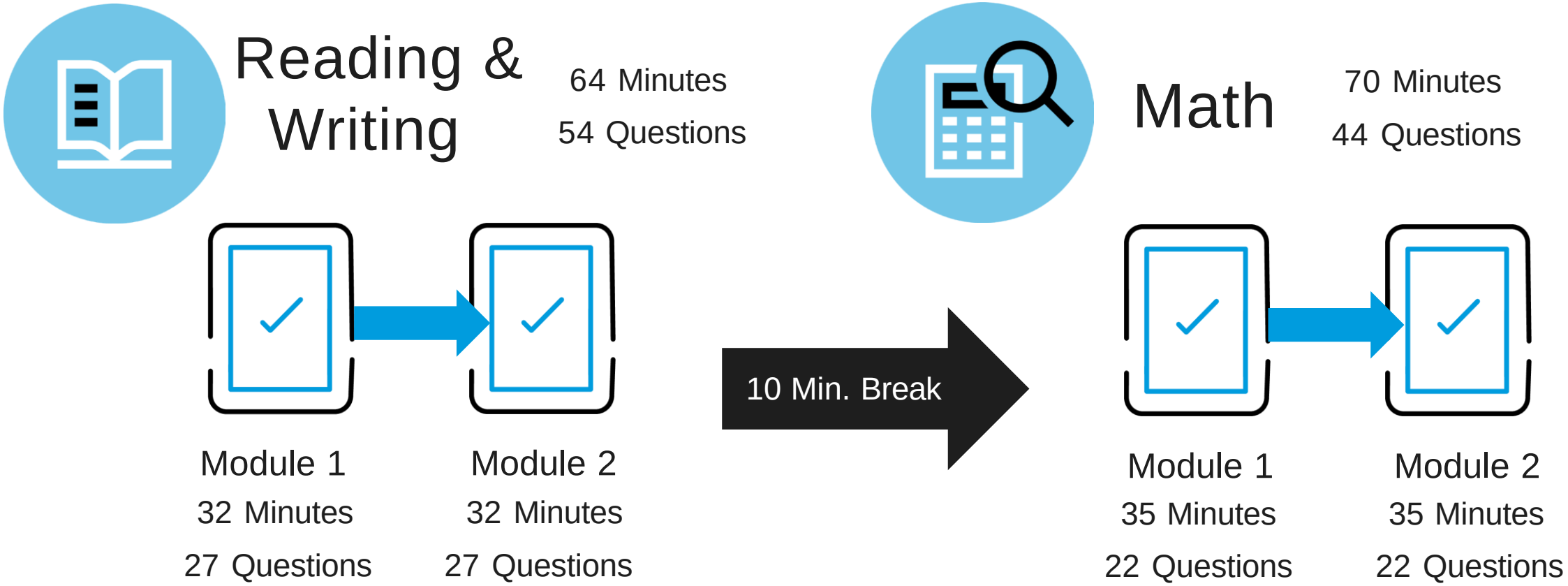
The SAT Suite of Assessments

The SAT Suite of Assessments



SAT Assessment Overview

Total standard time is 2 Hours and 24 Minutes, which includes a 10-minute break between Reading & Writing and Math



Why Texas students take part in the SAT Suite of Assessments each year

CCMR: Meet TSI Criteria on SAT, ACT, and/or TSIA

SAT Reading and Writing: 480

SAT Math: 530

CCMR Outcomes Bonus

CCMR Outcomes Bonuses are paid for the accomplishments of graduates above a certain percentage threshold on SAT, ACT or TSIA, and if they enroll in postsecondary education

Accelerated Testers

Fee waiver benefits

School Day reduces barriers and fosters college-going culture

Discounts for high-poverty schools

Performance Acknowledgements

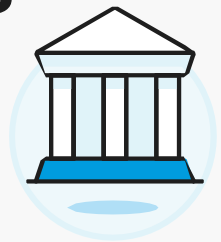
Earning National Merit commended or higher.

Identified for College Board's National Recognition Programs

Reaching certain SAT benchmarks (minimum of 1350 score).

Outstanding performance on an Advanced Placement tests if they earn a 3 or higher.

2023-2024 SAT Suite Participation in Texas



279,319

Students in the Class of 2024 took the SAT

75% of the Class of 2024

484,825

Students took the PSAT/NMSQT or PSAT 10

55% of the Class of 2025

59% of the Class of 2026

234,656

Students took the PSAT 8/9

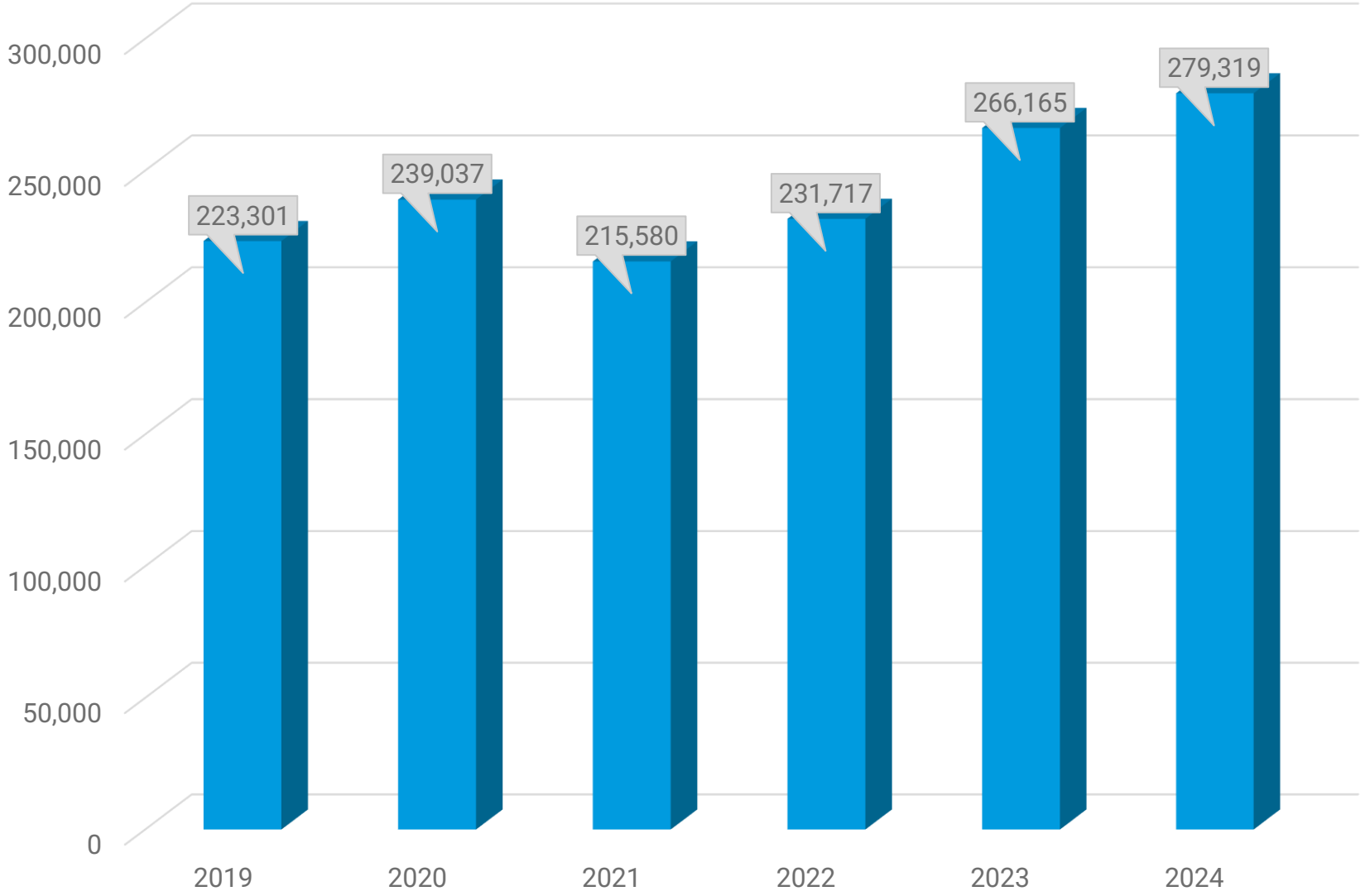
22% of the Class of 2027

32% of the Class of 2028

Texas SAT Participation by Cohort

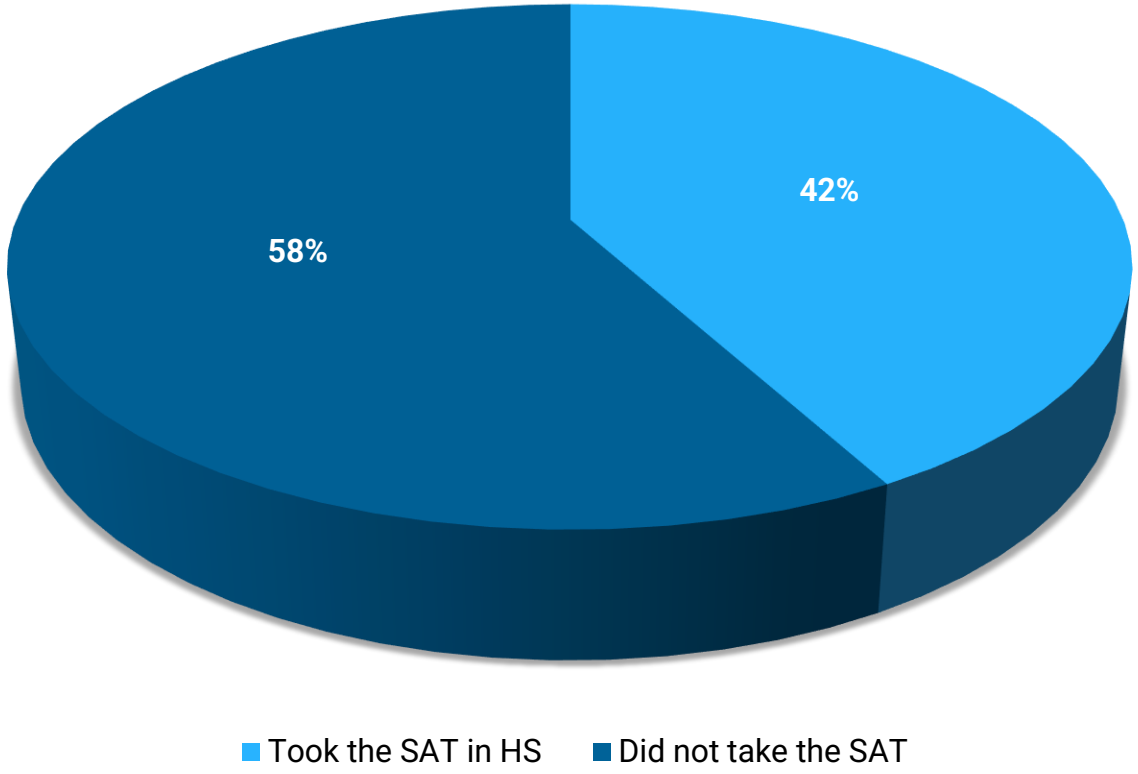
More Texas students are taking the SAT then ever before!

Since 2019, SAT participation has increased 25%

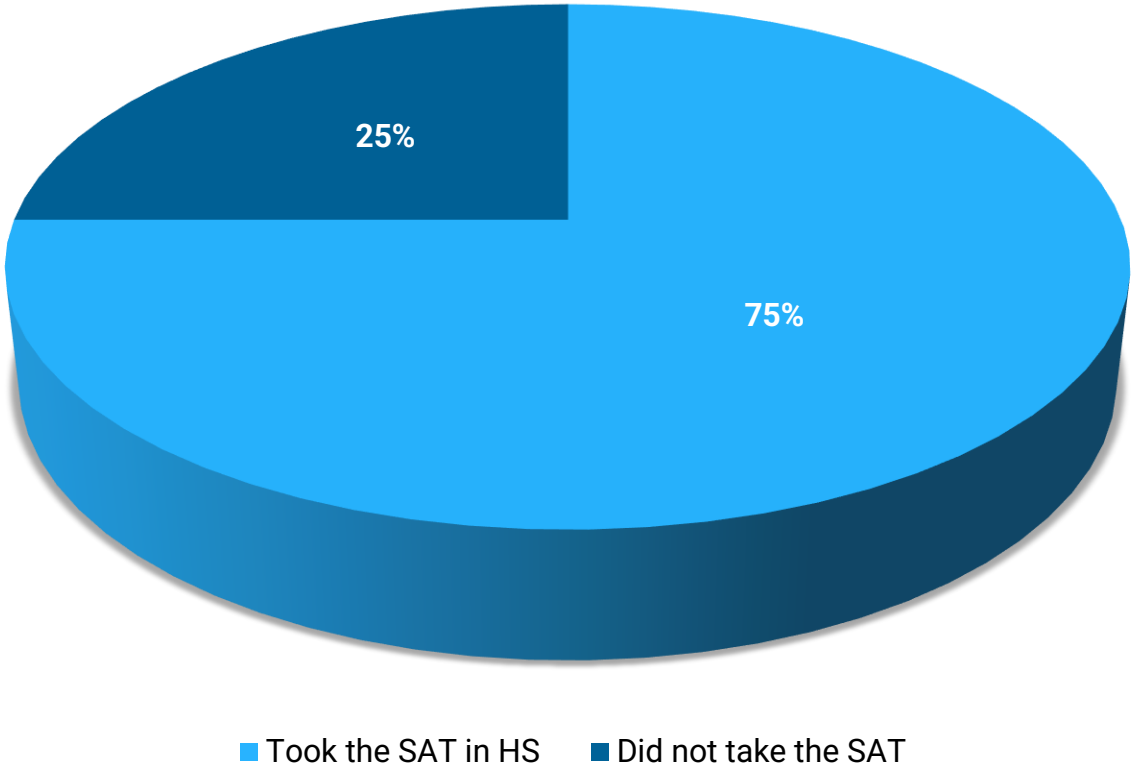


Class of 2024 SAT Participation

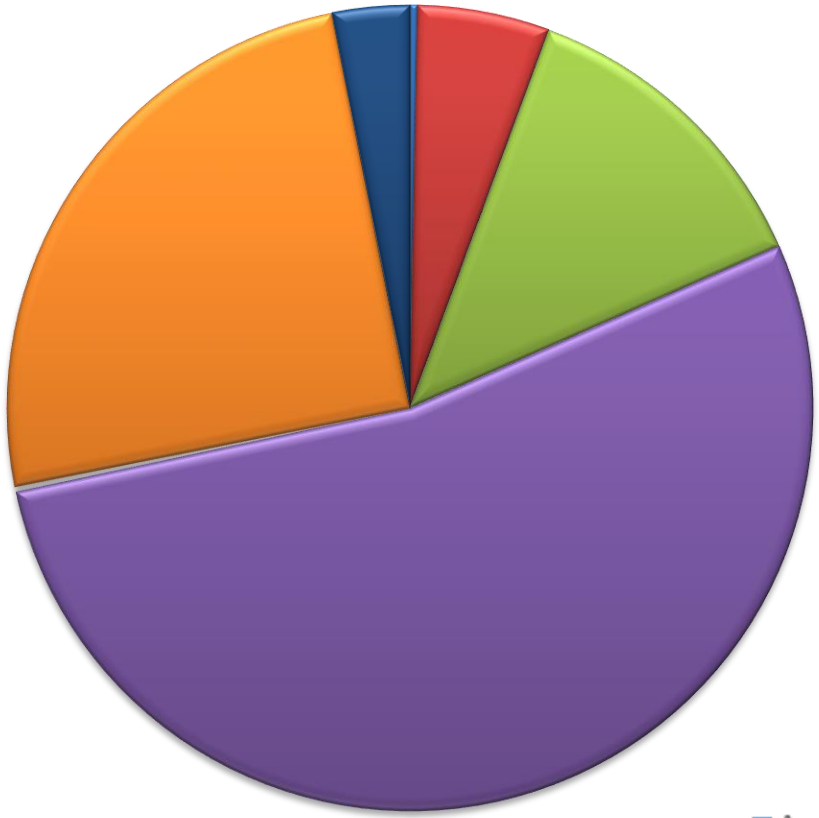
U.S Public Schools



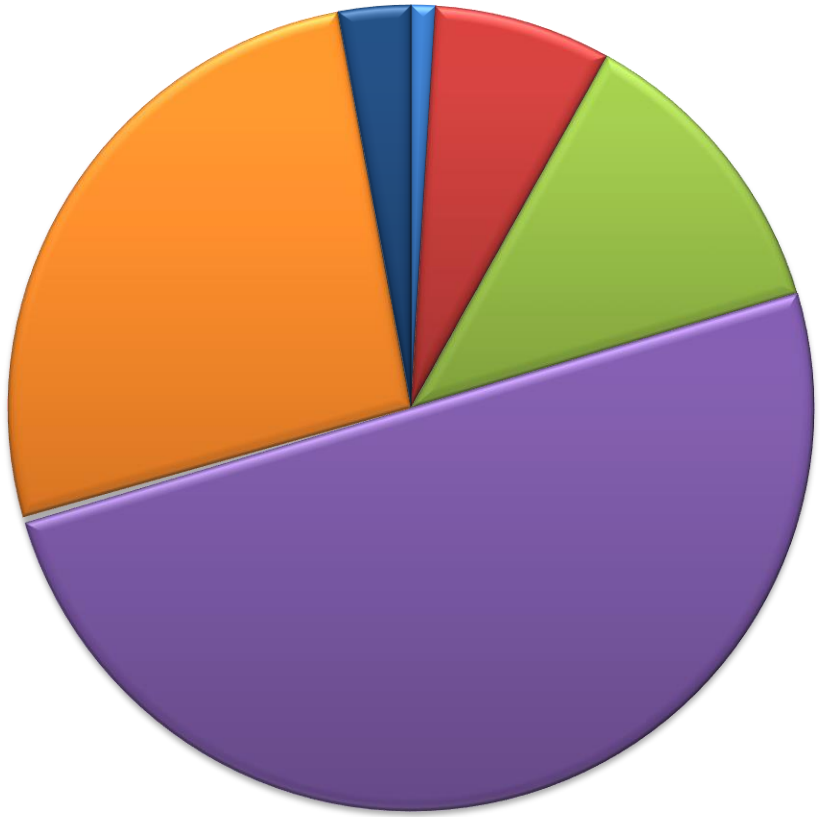
Texas Public Schools



Texas Public School Enrollment by Ethnicity

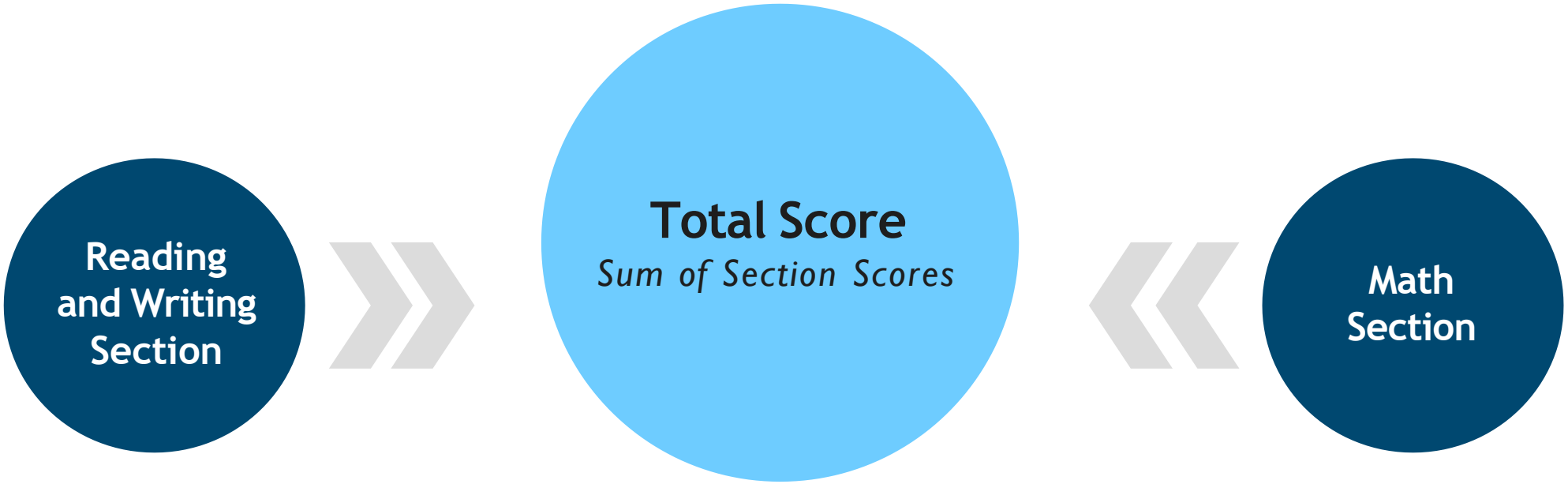


Texas Public Schools 2024 SAT Participation by Ethnicity



American Indian/Alaska Native
Asian
Black/African American
Hispanic Latino
Native Hawaiian/Other Pacific Islander
White
Two or More Races

Student Scores on the SAT Suite of Assessments



SAT: 200-800
PSAT/NMSQT and PSAT 10: 160-760
PSAT 8/9: 120-720

SAT: 400-1600
PSAT/NMSQT and PSAT 10: 320-1520
PSAT 8/9: 240-1440

SAT: 200-800
PSAT/NMSQT and PSAT 10: 160-760
PSAT 8/9: 120-720

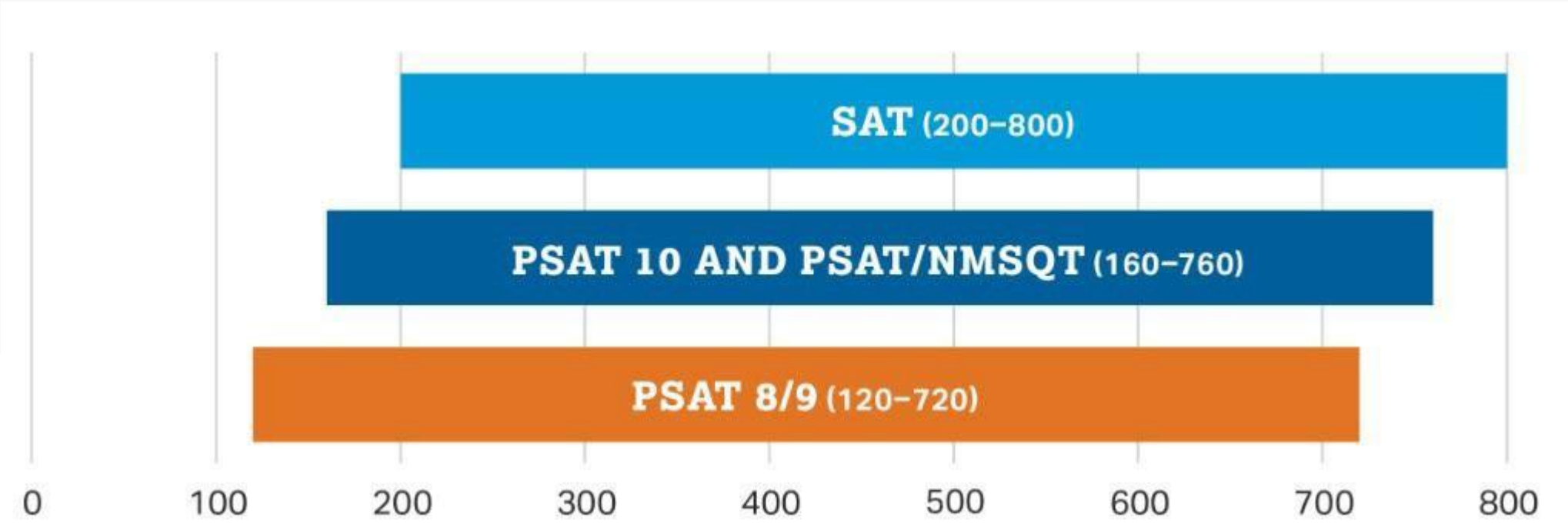
SAT Mean Scores - Class of 2024
Texas Public School Students

963	490	473
Total Score	ERW	Math

US Public Schools: 995 Total; 507 ERW; 488 Math

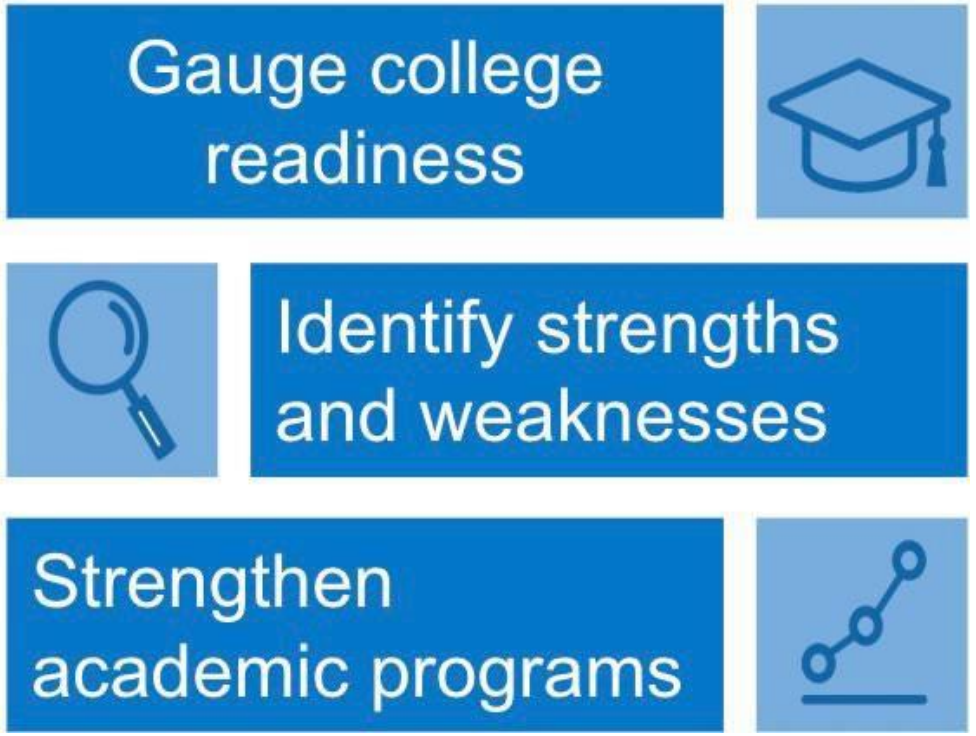
Vertical Score Scale

The SAT Suite uses a common score scale, providing consistent feedback across assessments to help educators and students monitor growth across grades and to identify areas in need of improvement.



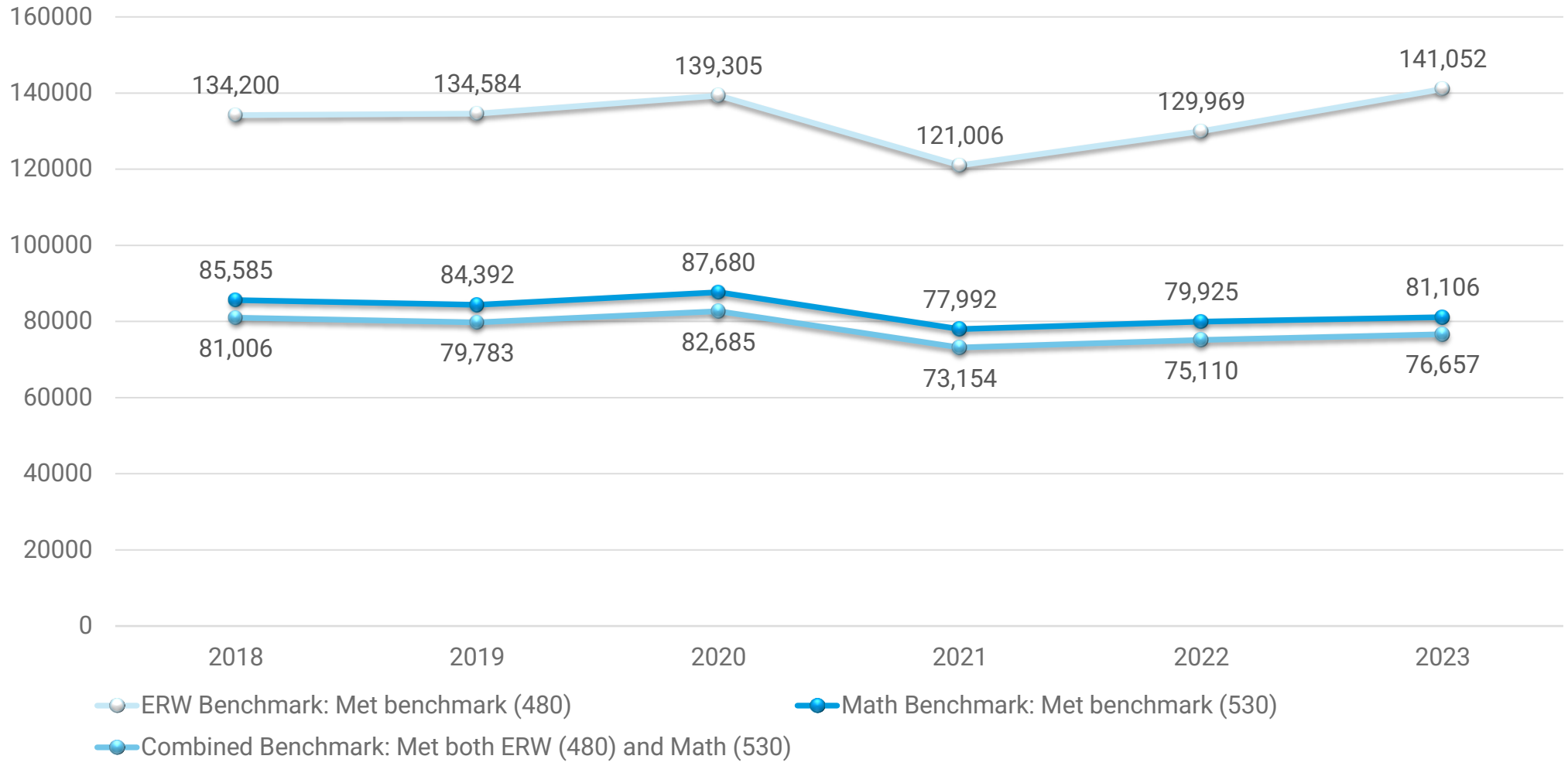
College Readiness Benchmarks

- 75% likelihood of earning at least a C in a first-semester, credit-bearing college course in a related subject.
- Overall college and career readiness is defined as achieving both section-level benchmarks on a given assessment.
- Grade-level benchmarks are based on expected student growth toward the SAT Benchmarks.



Section	Grade 8	Grade 9	Grade 10	Grade 11	SAT
Reading and Writing	**390**	**410**	**430**	**460**	**480**
Math	**430**	**450**	**480**	**510**	**530**

Texas Pubic Schools
SAT Benchmark Data by Cohort



College and Career Enrollment Choices

Texas Class of 2024

Of the 279,319 public school students who took the SAT, 61% designated their scores to be sent to institutions.

SAT Test-takers represented a wide variety of school locations:

- **City – 38%**
- **Suburb – 34%**
- **Town/Rural – 27%**

Top Intended Majors

1. Health Professions & Rel. Clinical Sciences – **14**%
2. Business, Management, Marketing, and Related Support Services – **13**%
3. Undecided – **13**%
4. Engineering – **9**%
5. Biological and Biomedical Studies – **9**%
6. Computer and Information Sciences – **5**%

Top Institutions Receiving SAT Scores

1. Texas A&M– **28**%
2. University of Texas at Austin – **22**%
3. University of Houston – **16**%
4. Texas Tech University – **15**%
5. Texas State University – 11%

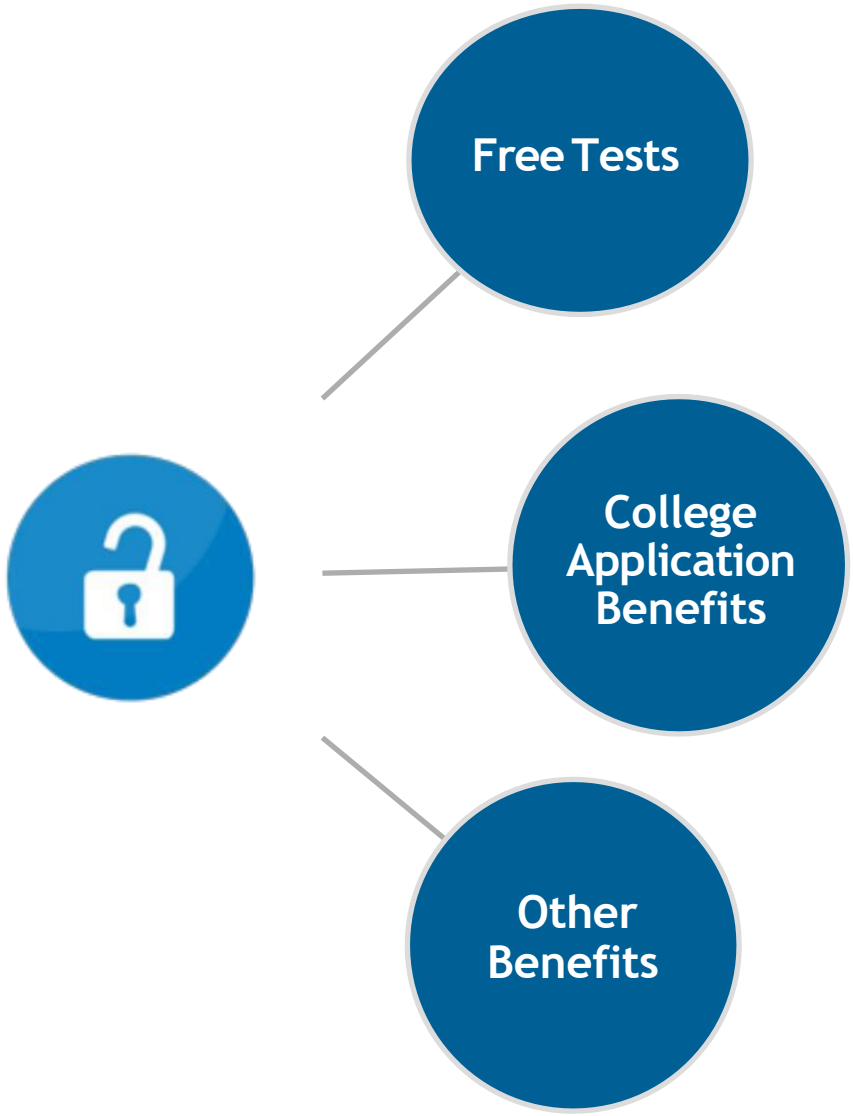
SAT® Suite

Supporting Access to the SAT Suite of Assessments


Administering the SAT to all students in school is a proven way to strengthen a **college-going** and **career-ready** culture and **boost college enrollment** among your students.

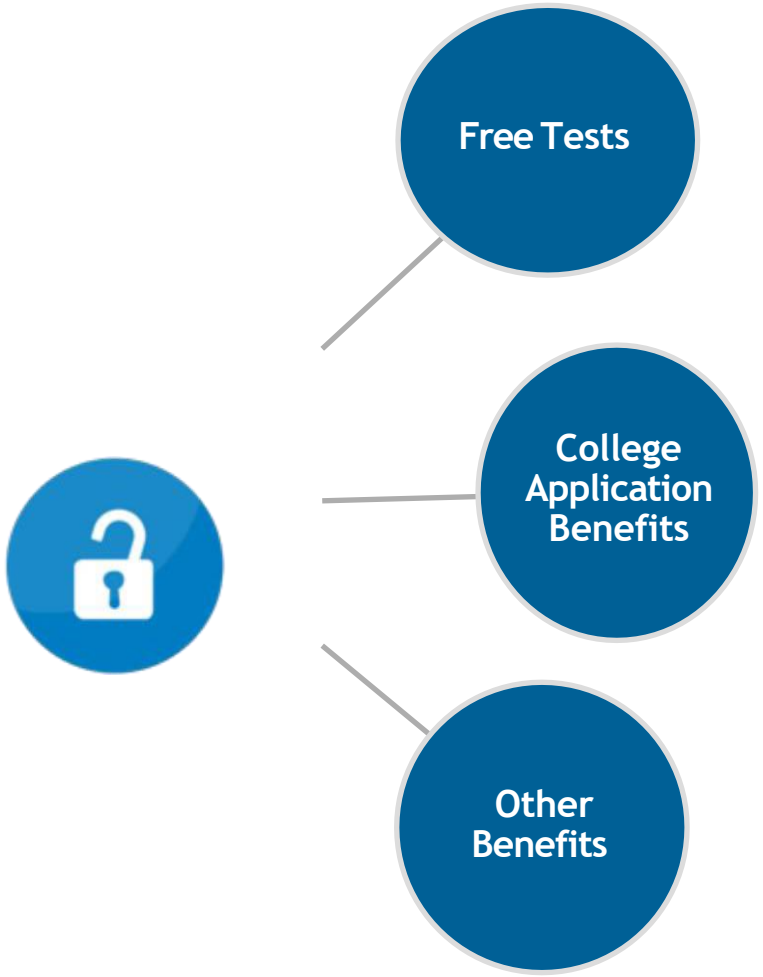
SAT Fee Waivers

- Schools **no longer need to submit student-level, fee waiver requests** for in-school testing. Discounts are given at the school level.
- Counselors **still receive fee waiver codes** to distribute to eligible students.
- Students can **directly request a fee waiver from College Board.**



https://counselors.collegeboard.org/assessments/sat/registration-fee-waivers-toolkit

SAT Fee Waiver Benefits



- 2 free SAT Weekend tests
- **No late registration fees** for free tests

- **Unlimited score reports** to send to colleges
- Waived application fee at participating colleges
- **Free CSS Profile® applications** to apply for financial aid from participating colleges

- Fee reductions for score verification reports

Services for Students with Disabilities (SSD)

- College Board is dedicated to ensuring that students with disabilities receive appropriate accommodations on their tests.

- Each year, the College Board Services for Students with Disabilities (SSD) office receives over 200,000 requests for accommodations from students with disabilities, of which the vast majority are approved.

- SSD Resources:
  - Services for Students with Disabilities (website)
  - Accommodations and Supports Handbook (pdf)

Services for Students with Disabilities (SSD)

- English Learner supports now available for PSAT/NMSQT

- New Transfer Process
  - SSD coordinators can now add/delete transfer students from the dashboard when students change schools.

- New Process for Temporary Supports
  - For fall 2024, email SSD at info.collegeboard.org to get a secure link to upload requests for temporary supports.

New for 2024-25

SAT® Suite

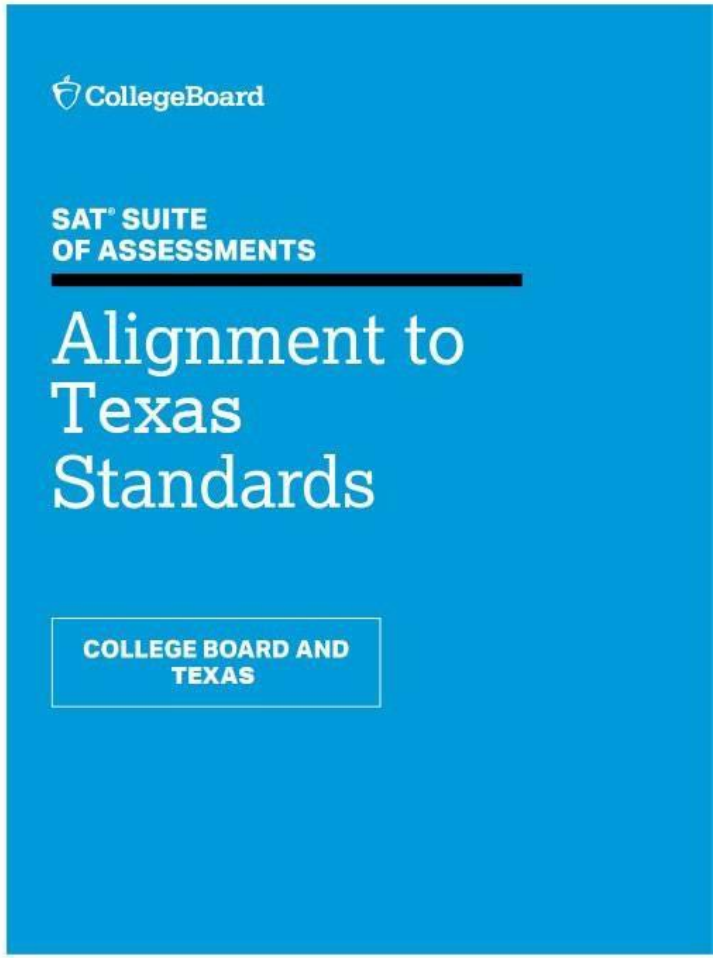
Supporting Student Performance on the SAT Suite of Assessments

Digital SAT Suite Alignment to Texas Standards Report

Executive Summary:

Based on a thorough review of the Texas College and Career Readiness Standards (CCRS) and Texas Essential Knowledge and Skills (TEKS), College Board finds that the digital SAT Suite strongly aligns and thereby supports students' progress toward educational and workplace success.

https://satsuite.collegeboard.org/media/pdf/tx-sat-suite-alignment-texas-standards.pdf



Digital SAT Suite Alignment to Texas Standards Report

The digital SAT Suite **strongly aligns** to Texas College and Career Readiness Standards (CCSS) and the TEKS

Texas CCRS and TEKS	College Board Assessment	Degree of Alignment
Grade 8 English Language Arts and Reading	PSAT 8/9	Strong
English I	PSAT 8/9	Strong
English II	PSAT/NMSQT and PSAT 10	Strong
English III	PSAT/NMSQT and PSAT 10 and SAT	Strong
English IV	SAT	Strong
CCRS for English / Language Arts	SAT	Strong
Grade 8 Mathematics	PSAT 8/9	Strong
Algebra I	SAT Suite	Strong
Geometry	SAT Suite	Strong
Algebra II	PSAT/NMSQT and PSAT 10 and SAT	Strong
CCRS for Mathematics	SAT Suite	Strong
CCRS for Science	SAT	Strong

Digital SAT Suite Alignment to Texas College and Career Readiness Standards

The digital SAT Suite **strongly aligns** to Texas College and Career Readiness Standards (CCSS) and the TEKS

Table 17: ELA CCRS Aligned to Digital SAT Suite

TX Standards			Information and Ideas			Craft and Structure			Expression of Ideas		Standard English Conventions	
			Central Ideas and Details	Inferences	Command of Evidence	Words in Context	Text Structure and Purpose	Cross-Text Connections	Rhetorical Synthesis	Transitions	Boundaries	Form, Structure, and Sense
Writing	I.A.1	Compose a variety of texts that demonstrate clear focus, the logical development of ideas in well-organized paragraphs, and the use of appropriate language that advances the author's purpose. 1. Determine effective approaches, genres, rhetorical techniques, and media that demonstrate understanding of the writer's purpose and audience.							✓	✓		
Writing	I.A.2	Generate ideas, gather information, and manage evidence relevant to the topic and purpose.										
Writing	I.A.3	Evaluate relevance, quality, sufficiency, and depth of preliminary ideas and information; organize material generated; and formulate a thesis or purpose statement.							✓	✓		
Writing	I.A.4	Review feedback and revise each draft by organizing it more logically and fluidly, refining key ideas, and using language more precisely and effectively.							✓	✓		
Writing	I.A.5	Edit writing for audience, purpose, context, and style, assuring that it conforms to Standard American English, when appropriate.									✓	✓
Reading	II.A.1	Identify, analyze, and evaluate information within and across texts of varying lengths and genres. 1. Use effective reading strategies to determine a written work's purpose and intended audience.					✓					
Reading	II.A.2	Use text features to form an overview of content and to locate information.										
Reading	II.A.3	Identify explicit and implicit textual information including main ideas and author's purpose.	✓	✓			✓					
Reading	II.A.4	Make evidence-based inferences about a text's meaning, intent, and values.		✓	✓		✓					
Reading	II.A.5	Analyze and evaluate implicit and explicit arguments in a variety of texts for the quality and coherence of evidence and reasoning.	✓	✓	✓							

Digital SAT Suite Alignment to Texas Standards the TEKS

The digital SAT Suite **strongly aligns** to Texas College and Career Readiness Standards (CCSS) and the TEKS

Table 25: Algebra I TEKS Aligned to Digital SAT

TX Standards			Algebra					Advanced Math			Problem Solving and Data Analysis							Geometry and Trigonometry			
			Linear equations in one variable	Linear functions	Linear equations in two variables	Systems of two linear equations in two variables	Linear equations in one or two variables	Equivalent expressions	Nonlinear equations in one variable and systems of equations in two variables	Nonlinear functions	Ratios, rates, proportional relationships, and units	Percentages	One variable data	Two-variable data	Probability and conditional probability	Inference from sample statistics and margin of error	Evaluating statistical claim	Area and volume	Lines, angles, and triangles	Right triangles and trigonometry	Circles
Linear functions, equations, and inequalities	1A.2(D)	write and solve equations involving direct variation;		✓							✓										
Linear functions, equations, and inequalities	1A.2(E)	write the equation of a line that contains a given point and is parallel to a given line;			✓																
Linear functions, equations, and inequalities	1A.2(F)	write the equation of a line that contains a given point and is perpendicular to a given line;			✓																
Linear functions, equations, and inequalities	1A.2(G)	write an equation of a line that is parallel or perpendicular to the x- or y-axis and determine whether the slope of the line is zero or undefined;		✓	✓	✓															
Linear functions, equations, and inequalities	1A.2(H)	write linear inequalities in two variables given a table of values, a graph, and a verbal description; and					✓														
Linear functions, equations, and inequalities	1A.2(I)	write systems of two linear equations given a table of values, a graph, and a verbal description.				✓															

The following aggregate reports are available.

View more details about these reports on our website.

Report	Brief Description
Performance by All Students	These reports provide score and benchmark performance aggregated for all students. You can also compare overall performance of a school to their district, state, and total group.
Performance by Demographics	These reports provide score and benchmark performance aggregated for different demographic groups.
Knowledge and Skills ***(digital tests only)***	This report shows aggregate student performance across four content domains in Reading and Writing and four content domains in Math, aggregated across defined performance score bands. You can compare overall performance of a school to their district, state, and total group..
Engagement ***(digital tests only)***	This report offers insights into students' engagement in BigFuture School, a free mobile app that launched in fall 2023 and was available to in-school digital PSAT/NMSQT, PSAT 10, and SAT School Day test takers that were 13 and older.
Connections Outreach ***(digital tests only)***	This Report contains the list of nonprofit colleges/universities and scholarship organizations delivering messages through Connections ™ to your students in the BigFuture School mobile app.
Question Analysis ***(paper tests only)***	This report provides aggregate and student-level data on each test question of their test. This is only available for the fall 2023 paper SAT.
Instructional Planning ***(paper tests only)***	This report provides benchmark data indicating college- and career-readiness in Math and Evidence-Based Reading and Writing as well as strengths and weaknesses in other areas measured by the SAT Suite test.
Growth ***(scheduled)***	This report helps you track the growth of a group of students from test to test and to project their performance on a future test. **Note**: This is a scheduled report and will be delivered in **Reports You Scheduled** of **Downloads** within 24 hours for download

The following student reports are available.

View more details about these reports on our website.

Report	Brief Description
Student Roster	This report provides a student roster for students that completed an administration. You'll see details about their scores, benchmarks, knowledge and skills, and more. You can drill into students from this report to view their detailed scores and score insights online.
Batch Score Report PDFs ***(scheduled)***	These reports generate individual student score report PDFs for students that completed a test administration. You can run this report for all testers that completed a test administration, or for specified grades. **Note**: This is a scheduled report and will be delivered in **Reports You Scheduled** of **Downloads** within 24 hours for download.

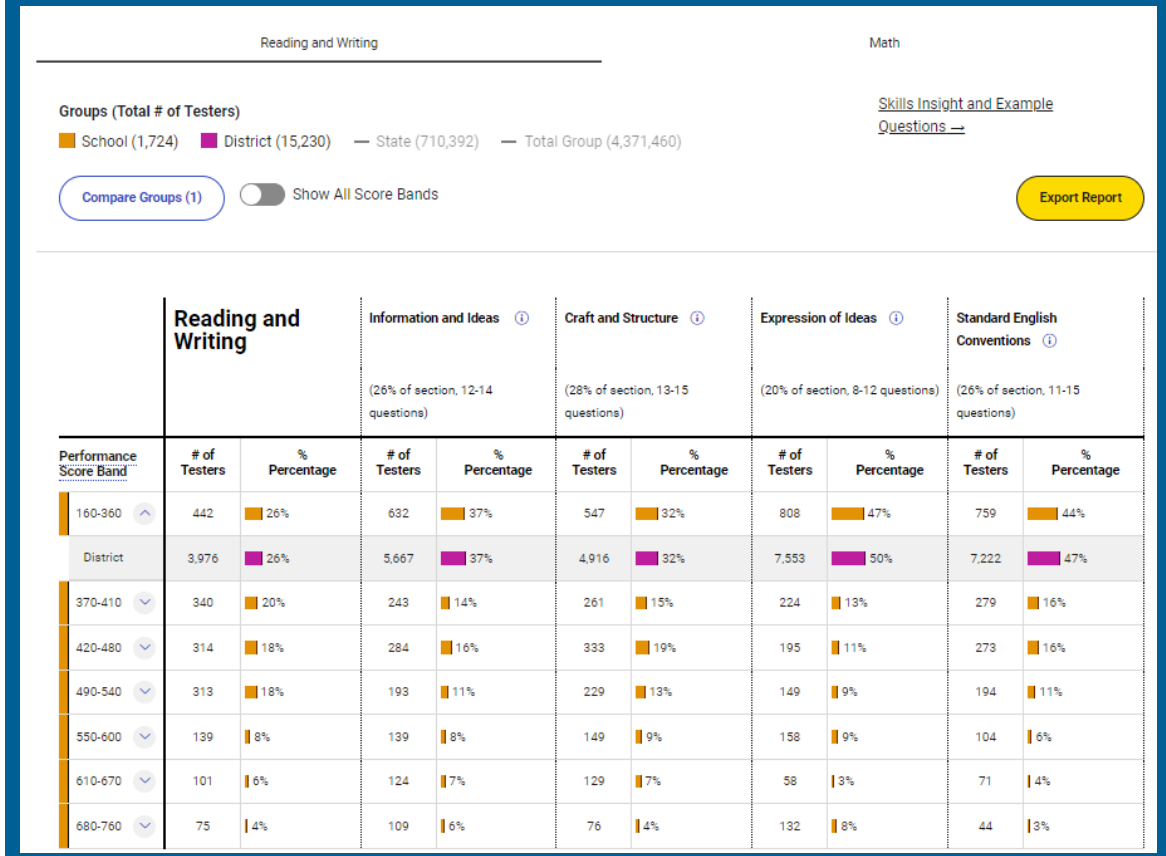
Knowledge and Skills Report

- View aggregate student knowledge and skill performance in 4 content domains in Reading and Writing and 4 content domains in Math.

- Review score comparisons:
  - Compare your overall performance to that of testers in your country and the total group of testers.
  - Schools can compare their performance to their district, state DOE, and all testers in the state (as applicable)
  - Districts can compare their performance to their state DOE and all testers in the state (as applicable)

- Districts and states can view their performance in the online report, as well as the performance of individual schools (and districts for states) using the export feature.

- Use this report to investigate where students are performing well and where they may need to make instructional adjustments.



	Reading and Writing		Information and Ideas (26% of section, 12-14 questions)		Craft and Structure (28% of section, 13-15 questions)		Expression of Ideas (20% of section, 8-12 questions)		Standard English Conventions (26% of section, 11-15 questions)	
Performance Score Band	# of Testers	% Percentage	# of Testers	% Percentage	# of Testers	% Percentage	# of Testers	% Percentage	# of Testers	% Percentage
160-360	442	26%	632	37%	547	32%	808	47%	759	44%
District	3,976	26%	5,667	37%	4,916	32%	7,553	50%	7,222	47%
370-410	340	20%	243	14%	261	15%	224	13%	279	16%
420-480	314	18%	284	16%	333	19%	195	11%	273	16%
490-540	313	18%	193	11%	229	13%	149	9%	194	11%
550-600	139	8%	139	8%	149	9%	158	9%	104	6%
610-670	101	6%	124	7%	129	7%	58	3%	71	4%
680-760	75	4%	109	6%	76	4%	132	8%	44	3%

Use this report alongside the Skills Insight Tool to make the most of this data!

https://satsuite.collegeboard.org/k12-educators/using-skills-insight

Knowledge and Skills Content Domains

Reading and Writing

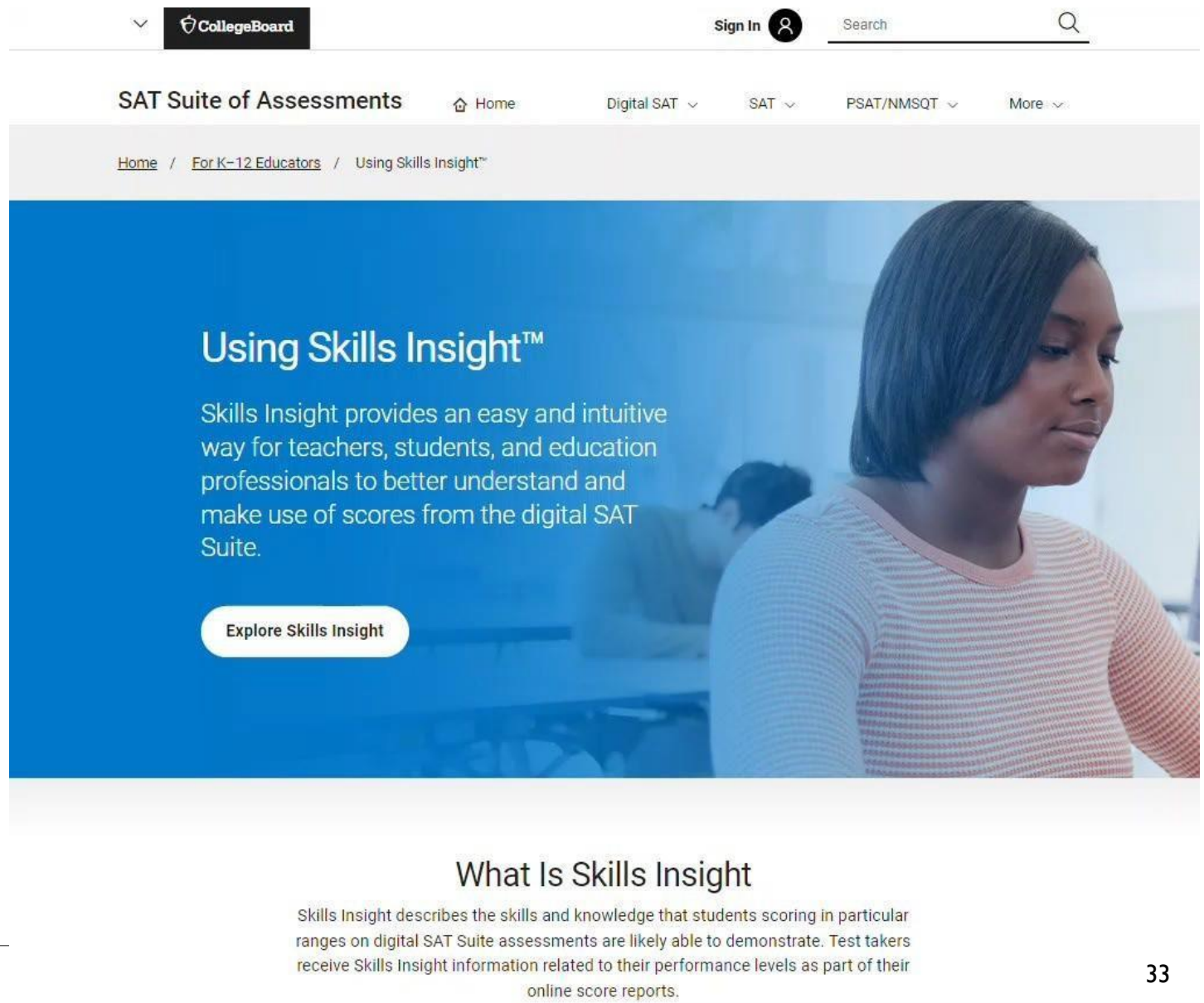
Information and Ideas
Craft and Structure
Explanation of Ideas
Standard English Conventions

Math

Algebra
Advanced Math
Problem Solving and Data Analysis
Geometry and Trigonometry

Skills Insight Tool

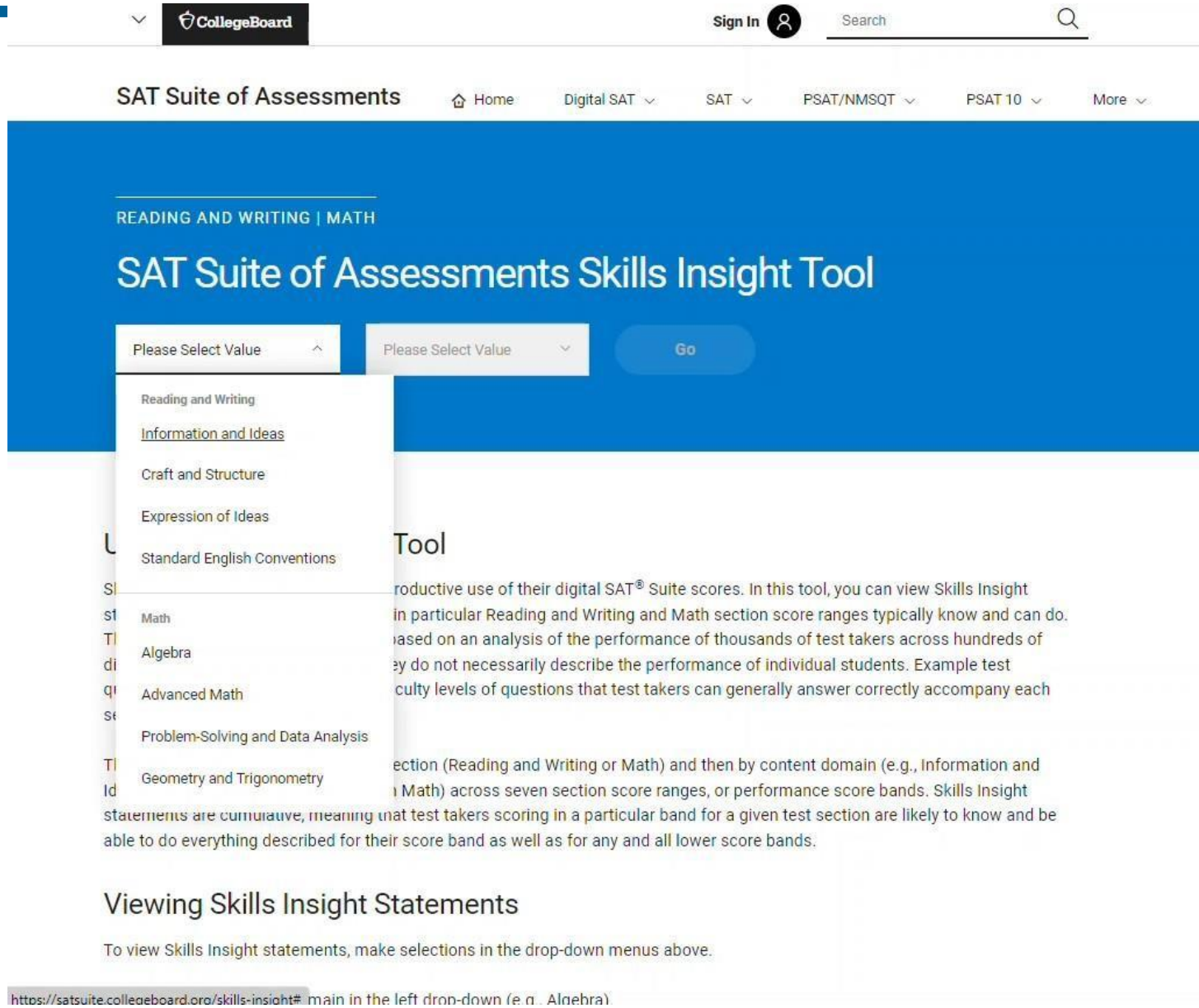
Describes the skills and knowledge that students scoring in particular ranges on digital SAT Suite assessments are likely able to demonstrate



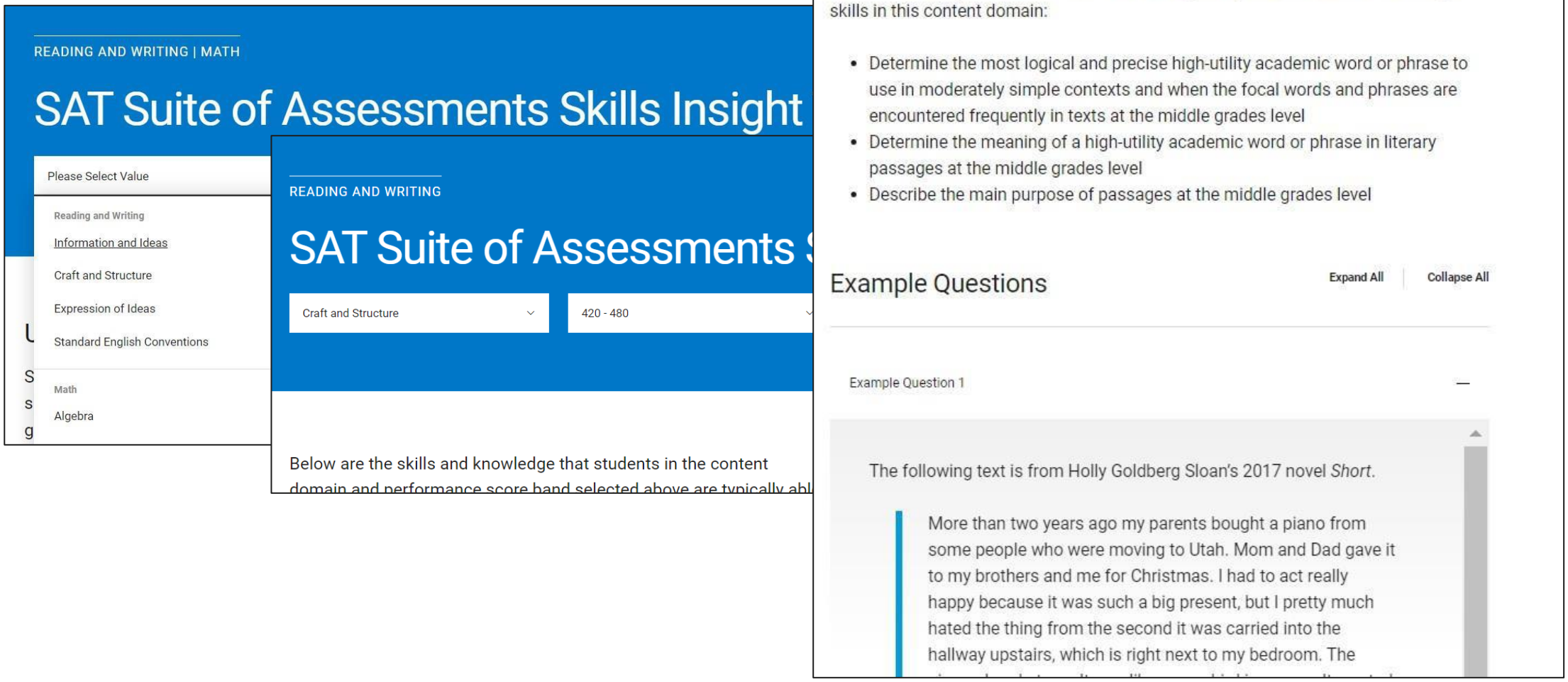
How to Use Skills Insight

Skills Insight consists of two main components:

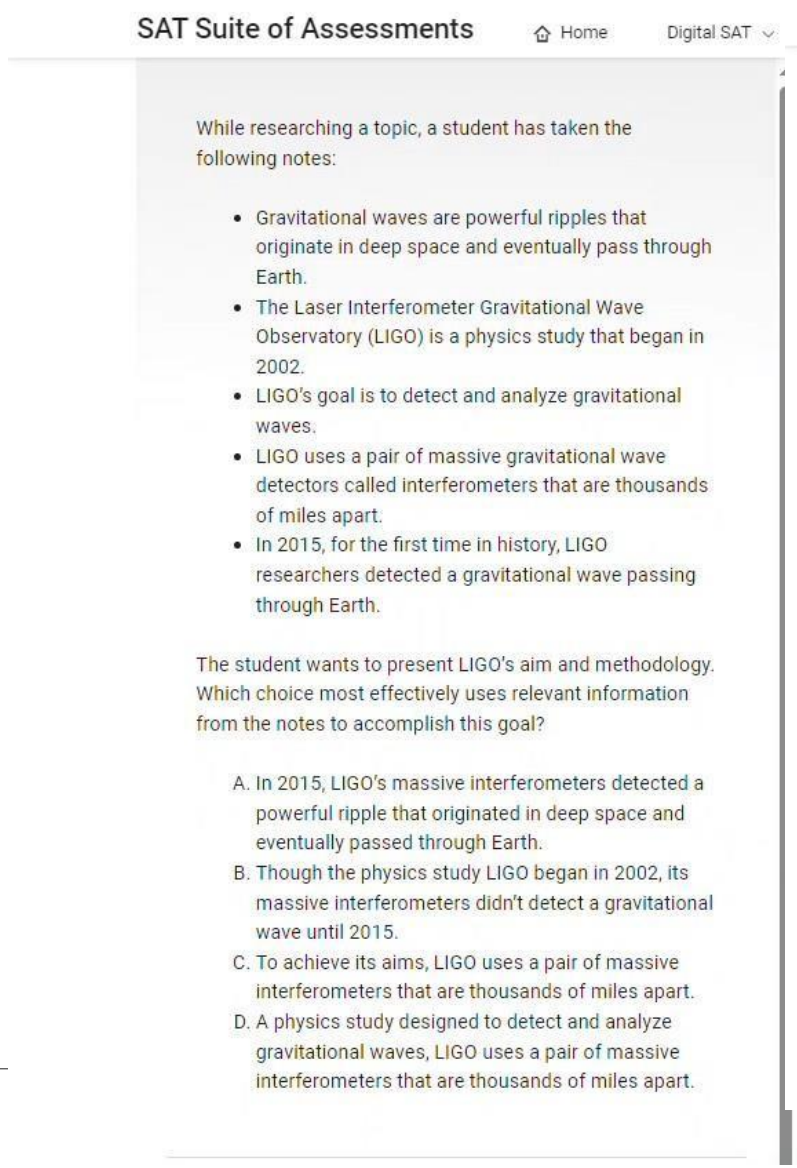
- Skill/Knowledge Statements
- Exemplar Test Questions

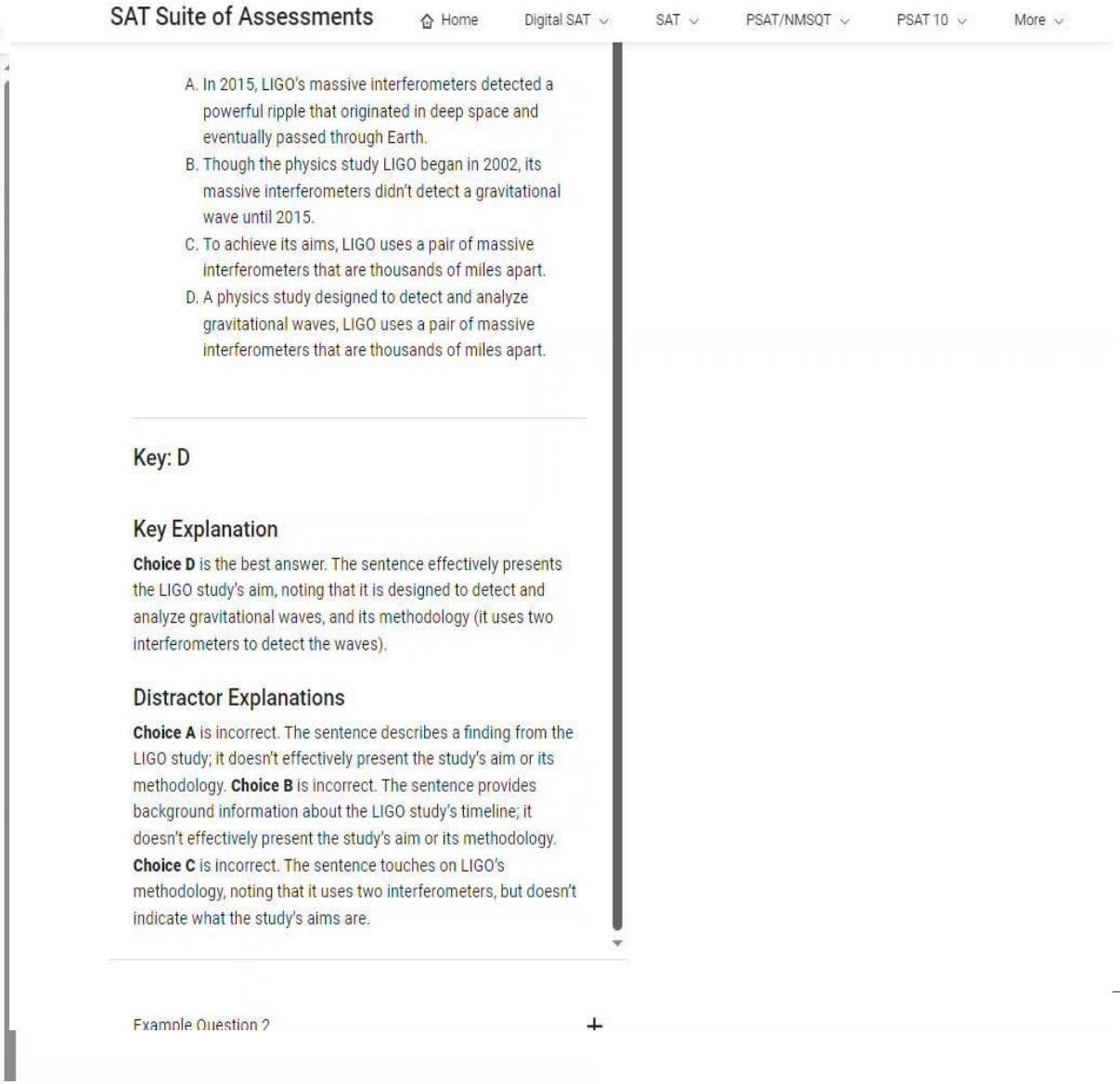


Skills Insight



Example Question





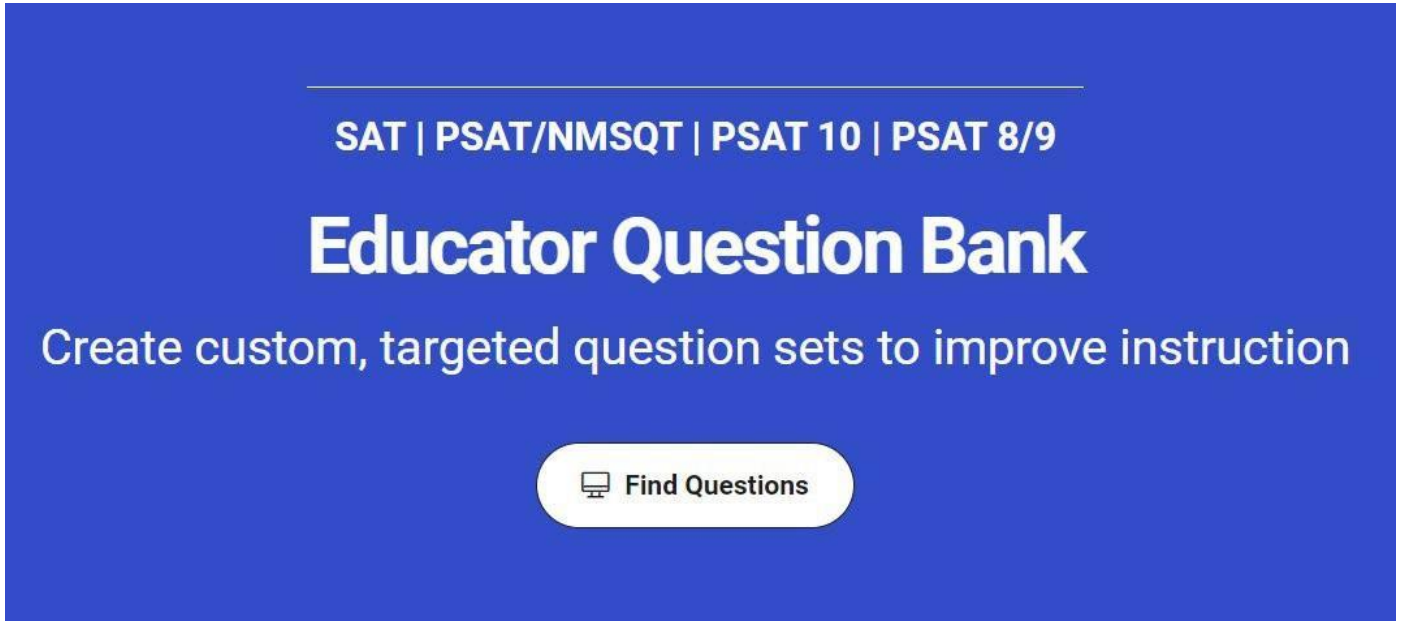
SAT Question Bank

The **SAT** Suite **Question Bank** provide educators with access to over 3500 questions which can be exported for use in curricular and instructional planning.

Thousands of real test questions for all SAT Suite Assessments.

Filter to help you find the right questions.

PDF export functionality available.



Educator Question Bank

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✓	ID #	Difficulty ?	Domain ?	Skill ?
☐	afec1a70	■■■	Expression of Ideas	Rhetorical Synthesis
☐	39ccb463	■■■	Expression of Ideas	Rhetorical Synthesis
☐	b46e0c8a	■■□	Expression of Ideas	Rhetorical Synthesis
☐	48d0bb34	■■□	Expression of Ideas	Rhetorical Synthesis
☐	aa7e10d0	■■□	Expression of Ideas	Rhetorical Synthesis
☐	264e7415	■□□	Expression of Ideas	Rhetorical Synthesis

Question ID afec1a70

Assessment	Test	Domain	Skill	Difficulty
SAT	Reading and Writing	Expression of Ideas	Rhetorical Synthesis	■■■

ID: afec1a70

While researching a topic, a student has taken the following notes:

- As engineered structures, many bird nests are uniquely flexible yet cohesive.
- A research team led by Yashraj Bhosale wanted to better understand the mechanics behind these structural properties.
- Bhosale's team used laboratory models that simulated the arrangement of flexible sticks into nest-like structures.
- The researchers analyzed the points where sticks touched one another.
- When pressure was applied to the model nests, the number of contact points between the sticks increased, making the structures stiffer.

The student wants to present the primary aim of the research study. Which choice most effectively uses relevant information from the notes to accomplish this goal?

A. Bhosale's team wanted to better understand the mechanics behind bird nests' uniquely flexible yet cohesive structural properties.

B. The researchers used laboratory models that simulated the arrangement of flexible sticks and analyzed the points where sticks touched one another.

C. After analyzing the points where sticks touched, the researchers found that the structures became stiffer when pressure was applied.

D. As analyzed by Bhosale's team, bird nests are uniquely flexible yet cohesive engineered structures.

ID: afec1a70 Answer

Correct Answer: A

Rationale

Choice A is the best answer. It describes the reason Bhosale's team wanted to study the structures of bird nests—that is to say, the study's primary aim.

Choice B is incorrect. This choice doesn't present the primary aim of the research study. It describes how the study worked, but not why it was done. Choice C is incorrect. This choice doesn't present the primary aim of the research study. It describes a result of the experiment, but not why it was carried out. Choice D is incorrect. This choice doesn't present the primary aim of the research study.

Question Difficulty: Hard

Question ID afec1a70

Assessment	Test	Domain	Skill	Difficulty
SAT	Reading and Writing	Expression of Ideas	Rhetorical Synthesis	■■■

ID: afec1a70

While researching a topic, a student has taken the following notes:

- As engineered structures, many bird nests are uniquely flexible yet cohesive.
- A research team led by Yashraj Bhosale wanted to better understand the mechanics behind these structural properties.
- Bhosale's team used laboratory models that simulated the arrangement of flexible sticks into nest-like structures.
- The researchers analyzed the points where sticks touched one another.
- When pressure was applied to the model nests, the number of contact points between the sticks increased, making the structures stiffer.

The student wants to present the primary aim of the research study. Which choice most effectively uses relevant information from the notes to accomplish this goal?

A. Bhosale's team wanted to better understand the mechanics behind bird nests' uniquely flexible yet cohesive structural properties.

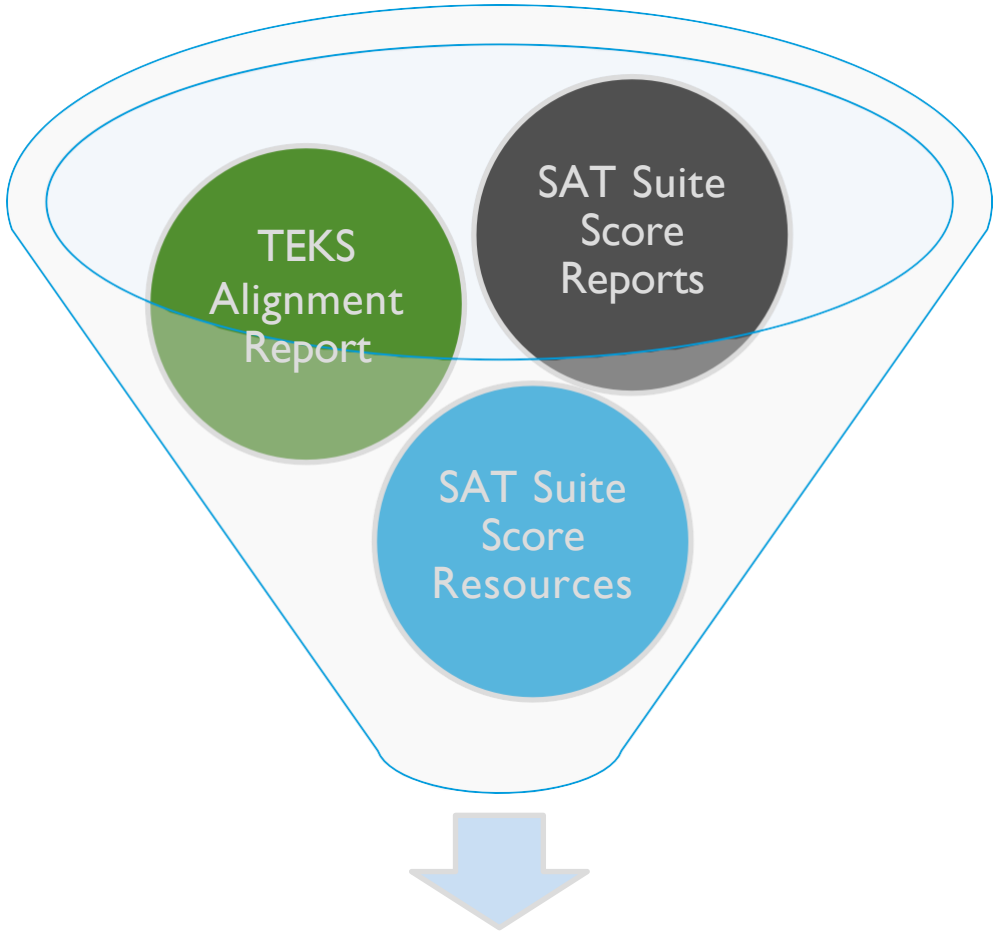
B. The researchers used laboratory models that simulated the arrangement of flexible sticks and analyzed the points where sticks touched one another.

C. After analyzing the points where sticks touched, the researchers found that the structures became stiffer when pressure was applied.

D. As analyzed by Bhosale's team, bird nests are uniquely flexible yet cohesive engineered structures.

Putting it All Together

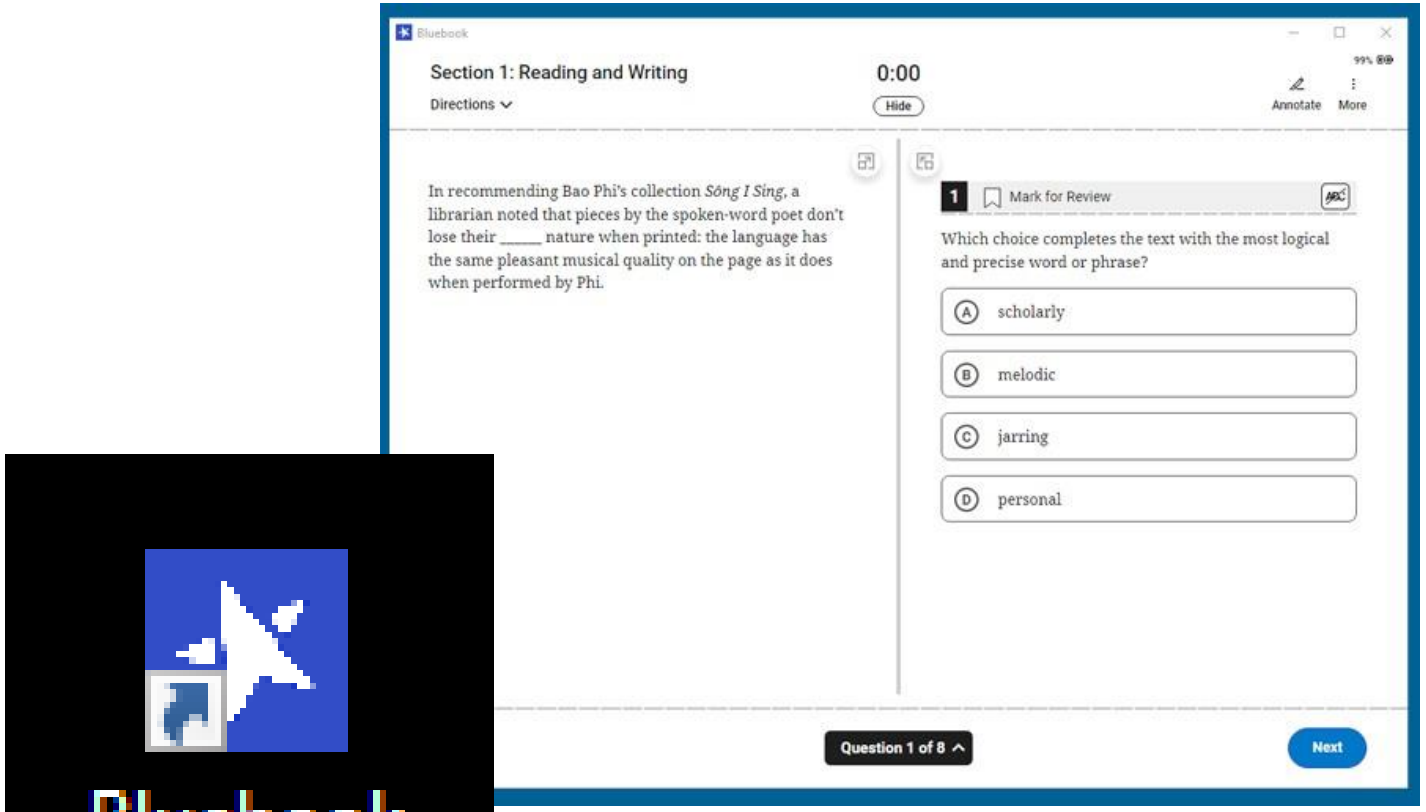
Combine Data, Tools, and Resources to Support Student Success

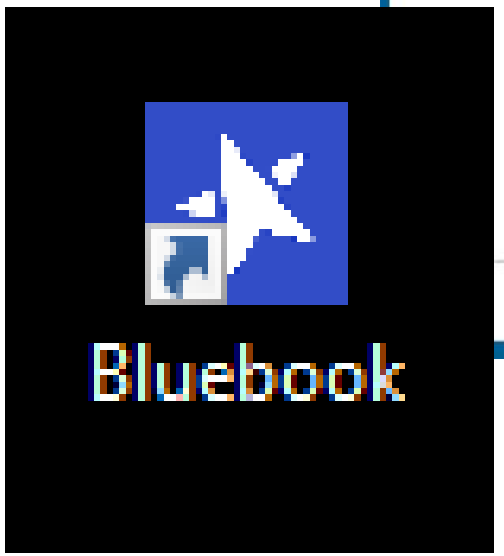


SAT® Suite

The Student Experience Before Testing

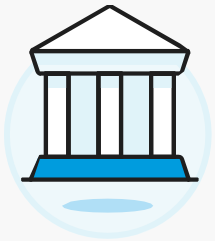
Bluebook
Digital Testing App





https://bluebook.app.collegeboard.org

Digital SAT Practice in Bluebook



Test Preview

A short set of untimed questions lets students experience digital testing and try out the tools. They won't receive scores or any feedback on their answers.

Full-Length Practice Test

Full-length practice tests are timed like a real test and include all the tools available to students on the actual tests. Students are also scored just as they would on the real thing.

How to Use Bluebook Practice Tests

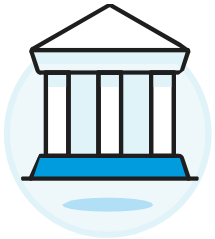
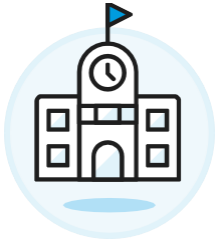


Figure out which test-taking strategies work best.

Pay attention to the pacing.

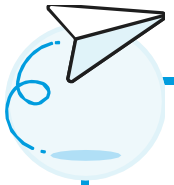


Try to duplicate testing conditions.

Get to know Bluebook.

Study with practice scores.

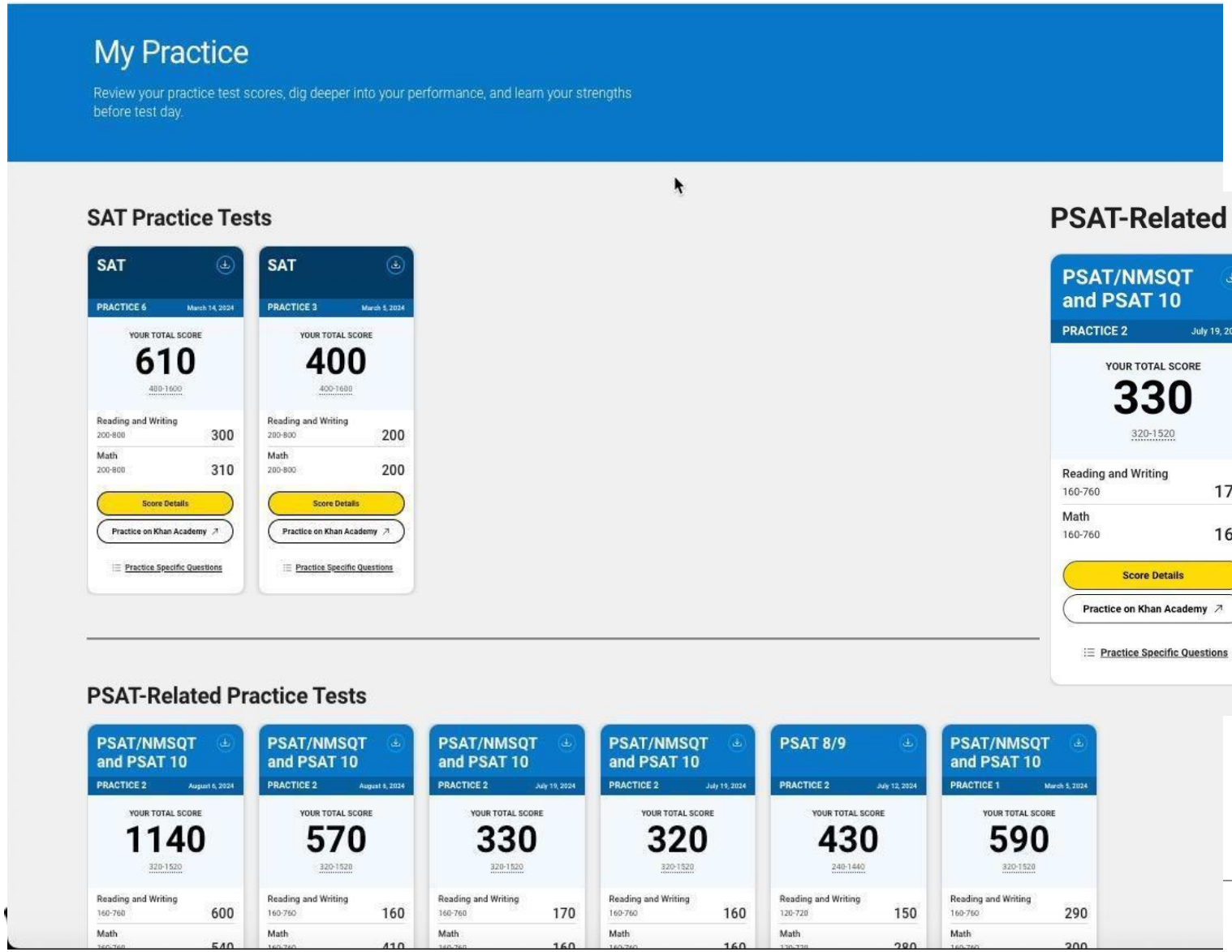
My Practice

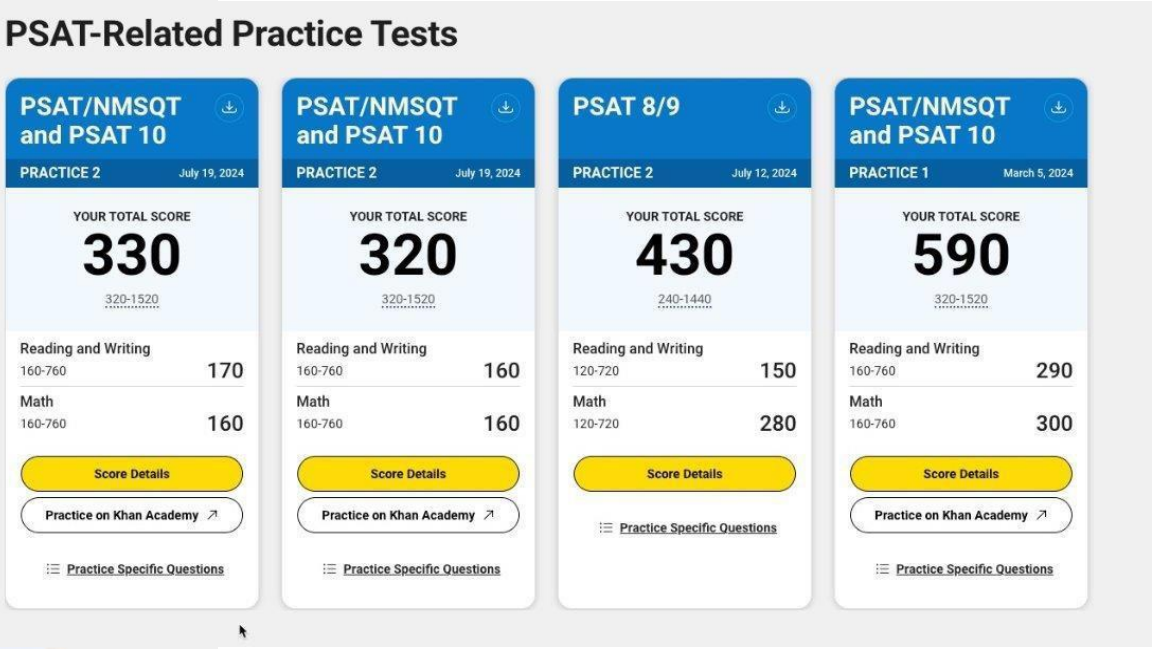


After completing the full-length practice test, students can sign in to **My Practice** to view their results.

- View practice score results and practice exam questions, answers, and explanations.
- Access progress bars representing knowledge of all the content domains on the test.
- Use practice test scores to filter questions in the Question Bank by domain, skill, and difficulty, allowing targeted practice in areas with the most opportunity to grow.
- Generate a set of Practice Specific Questions based on practice test results to provide additional review in the areas with the greatest opportunities for improvement.

Home screen – My Practice





Content Domains and Students Practice

Knowledge and Skills

Reading and Writing

Information and Ideas

(26% of test section, 12-19 questions)

Difficulty level : **Hard**

Expression of Ideas

(26% of test section, 6-7 questions)

Difficulty level : : **Easy**

Craft and Structure

(26% of test section, 12-14 questions)

Difficulty level :: **Medium**

Standard English Conventions

(26% of test section, 12-14 questions)

Difficulty level :: **Medium**

Math

Algebra

(26% of test section, 12-14 questions)

Difficulty level : : **Medium**

Advanced Math

(26% of test section, 12-14 questions)

Difficulty level :: **Hard**

Problem Solving & Data Analysis

(26% of test section, 12-14 questions)

Difficulty level :: **Medium**

Geometry & Trigonometry

(26% of test section, 12-14 questions)

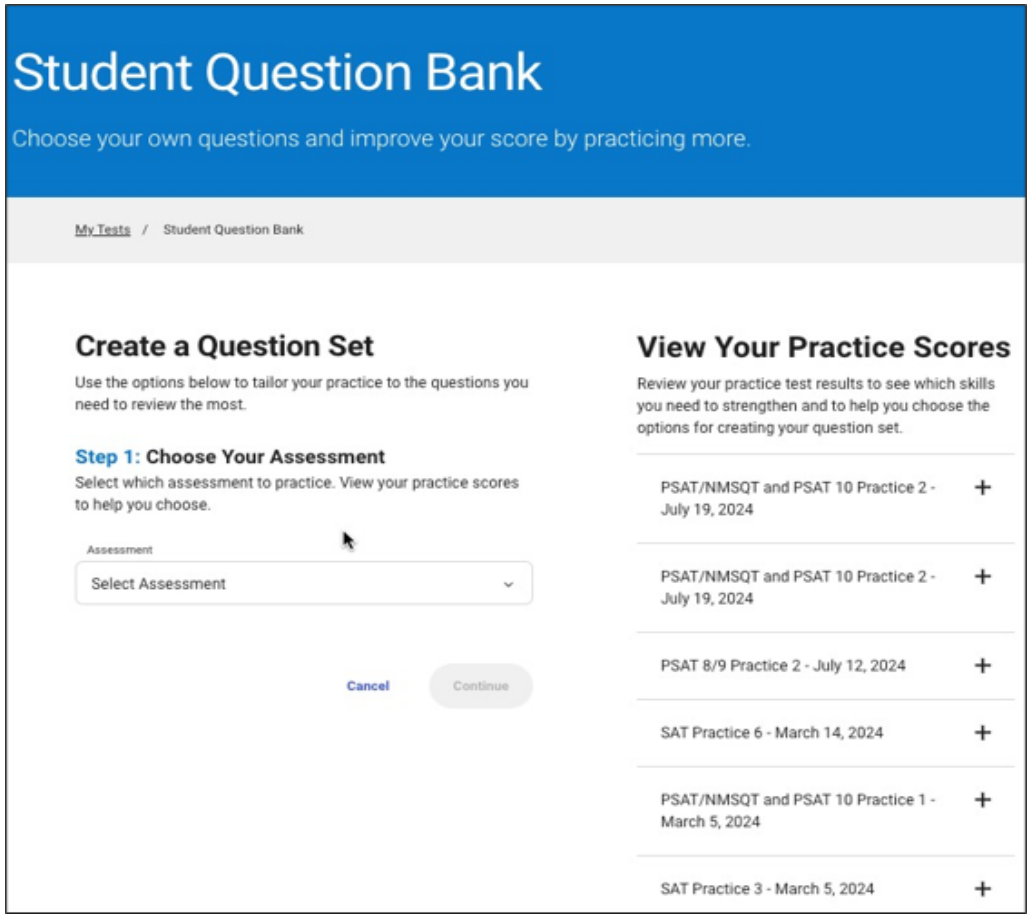
Difficulty level : : **Easy**

Progress bars represent student performance in each domain on their practice score report.

Provides a **snapshot** of their strengths and challenge areas

Student Question Bank (SQB)

Students can use the question bank to design their own practice with access to thousands of practice questions.

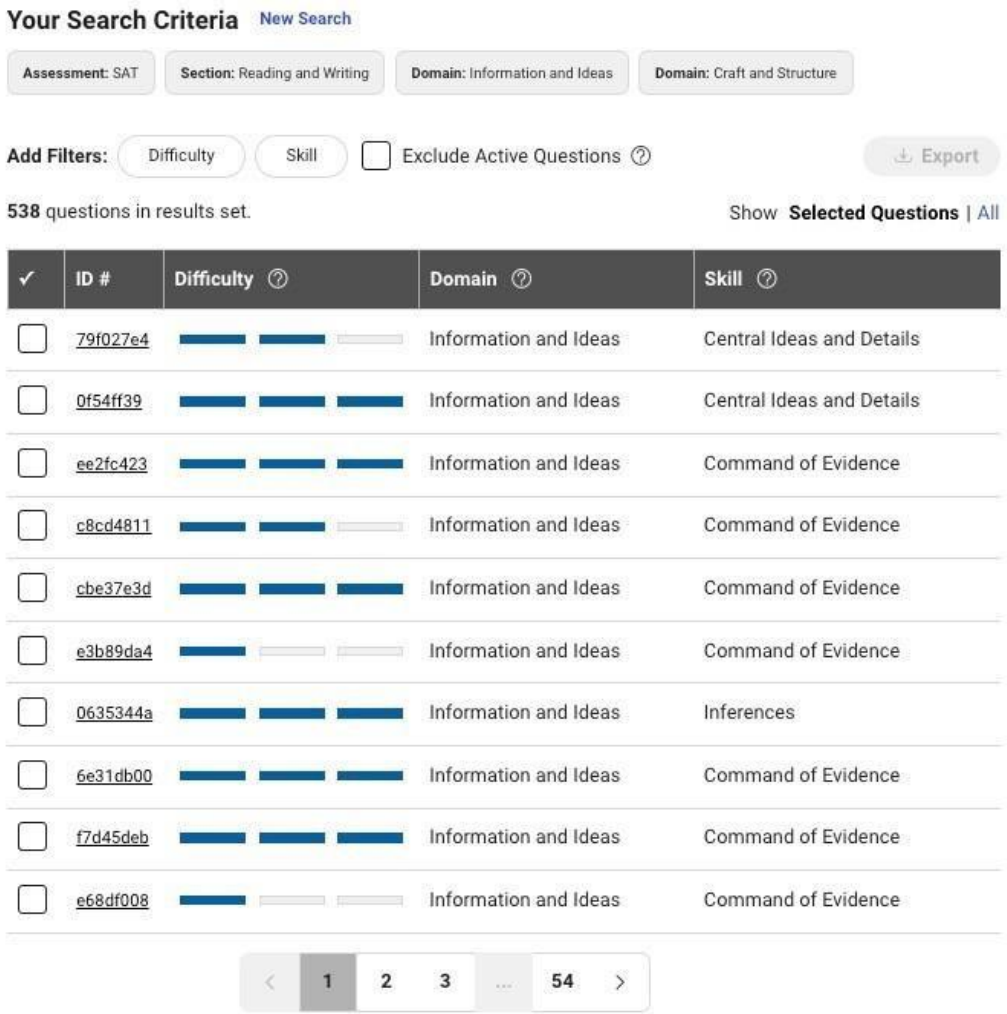


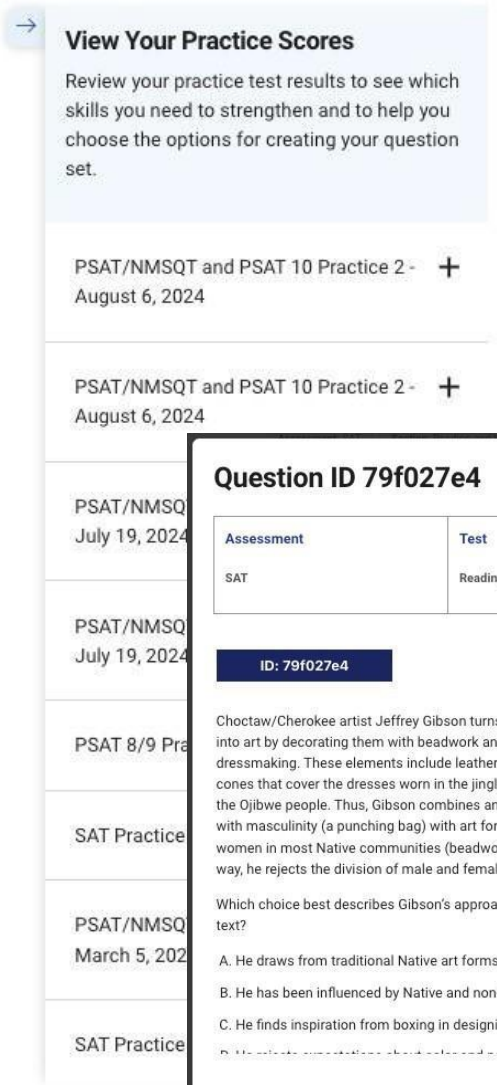
Filter questions by:

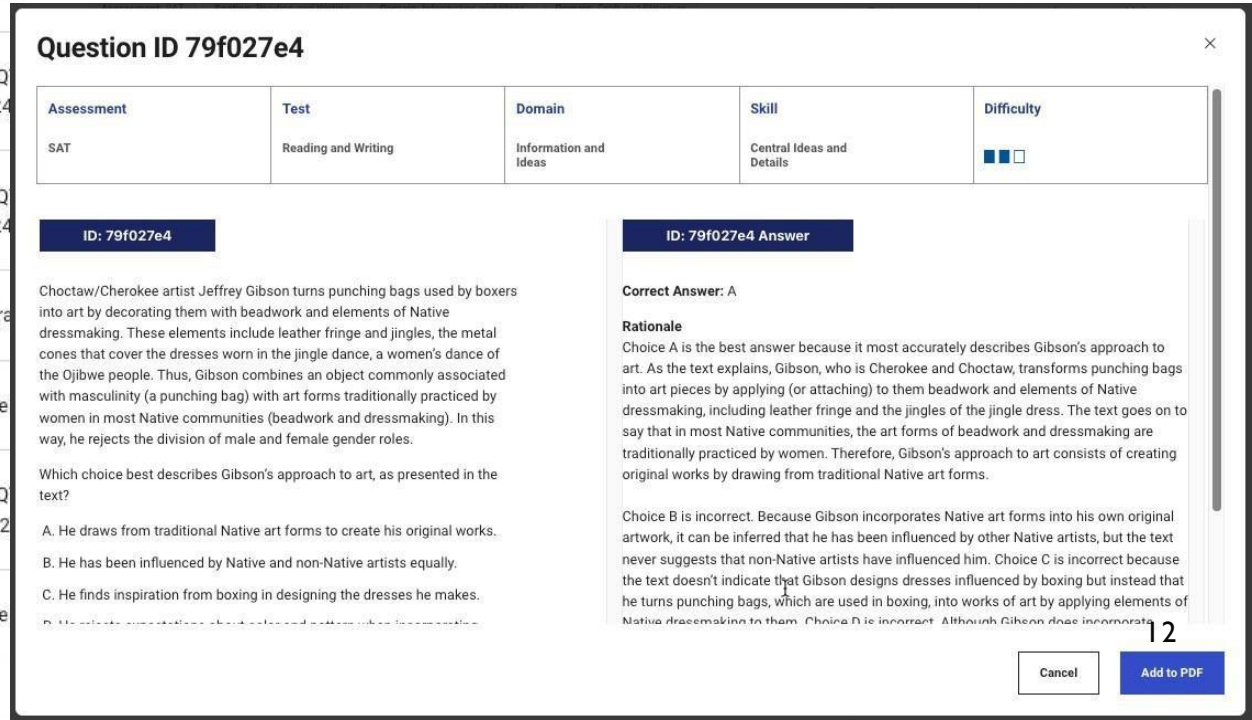
- Assessment
- Test (Reading & Writing or Math)
- Domain
- Skill
- Difficulty Level

Students must log into My Practice to access the SQB

Student Question Bank: Example Question Set







Digital SAT Prep with Khan Academy

- Once students have identified the knowledge and skills they need the most support on **My Practice**, they can also start Official Digital SAT Prep on Khan Academy®.

- Includes thousands of practice questions, videos, lessons, and hints to help students build the skills needed.

Khan Academy

Access additional practice questions, video lessons, quizzes and tests, and more.

SAT® Suite

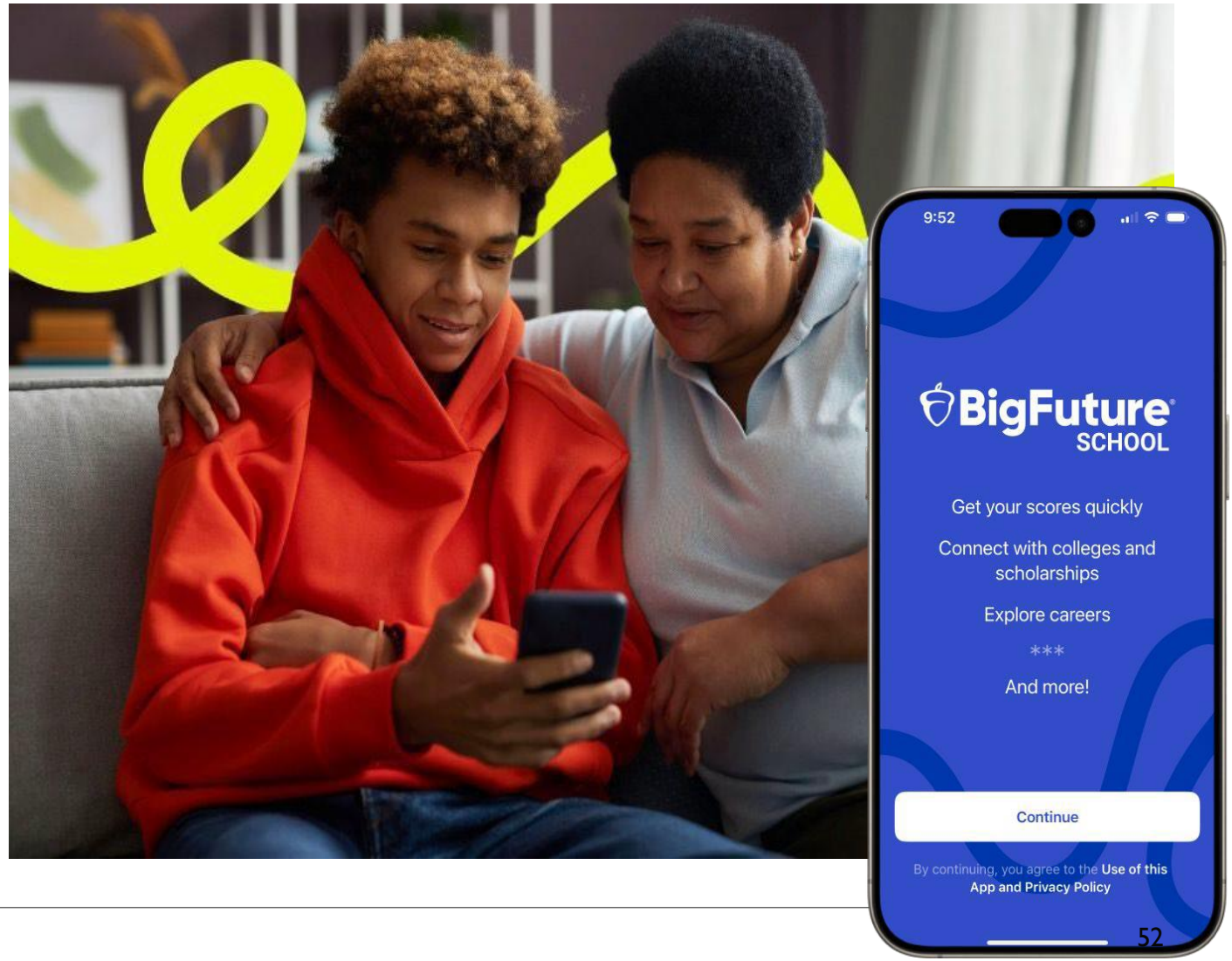
The Student Experience After Testing

Introducing the BigFuture School Mobile App

In-school assessments can propel millions of students toward their future goals and help them own their future.

BigFuture School meets students:

- **When** they are focused on what's next: In-school assessments
- **Where** they are comfortable consuming information: Mobile phones



Giving Millions of Students Control Over their Planning

It starts the moment students get their scores this fall…

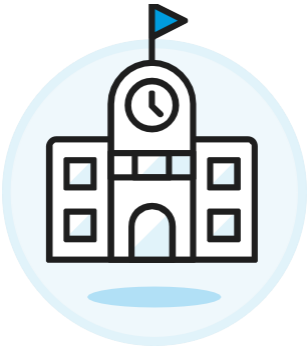
In the app, students can access PSAT/NMSQT, PSAT 10, and SAT School Day scores.

They can start exploring college and career options.

Explore Customized College & Career Messages

Students receive college and career planning messages and tips.

These are based on grade, time of year, and more.



Hear from Nonprofit Institutions

Students can opt in to Connections to discover more postsecondary options.

Messages are from nonprofit colleges, scholarship providers, and government agencies offering education programs.

Student-Driven, Privacy-Forward

Available to in-school test takers (PSAT/NMSQT, PSAT 10, SAT School Day), age 13+

3M+ Students

Access to BigFuture School

2M Students

Opted in to Connections

"Amazing App!!! It has helped me so much to explore new colleges and career opportunities, AND it shows me my test scores along with my strengths and weaknesses! Highly recommend, you will not be disappointed."

BigFuture School Student user

Students are in Control

They choose whether to access BigFuture School and/or opt-in to Connections.

No Personal Info is Shared

In Connections, no personal information is shared with institutions. A student chooses if and when to share information directly with an institution.

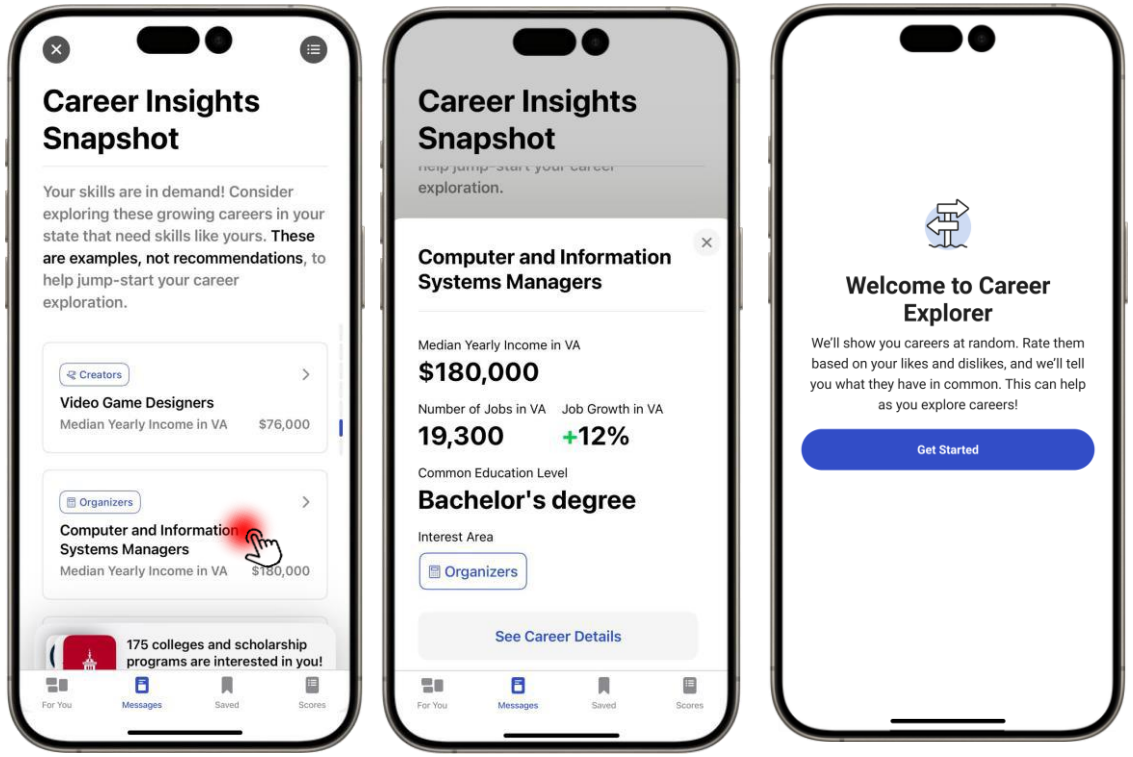
It's Optional

Students can easily opt-out at any time.

Students Can Check Their Score in the Mobile App

The moment students gets their score and career insights is a launchpad to continue or start planning

Score Report: PSAT/NMSQT, PSAT 10, SAT in school

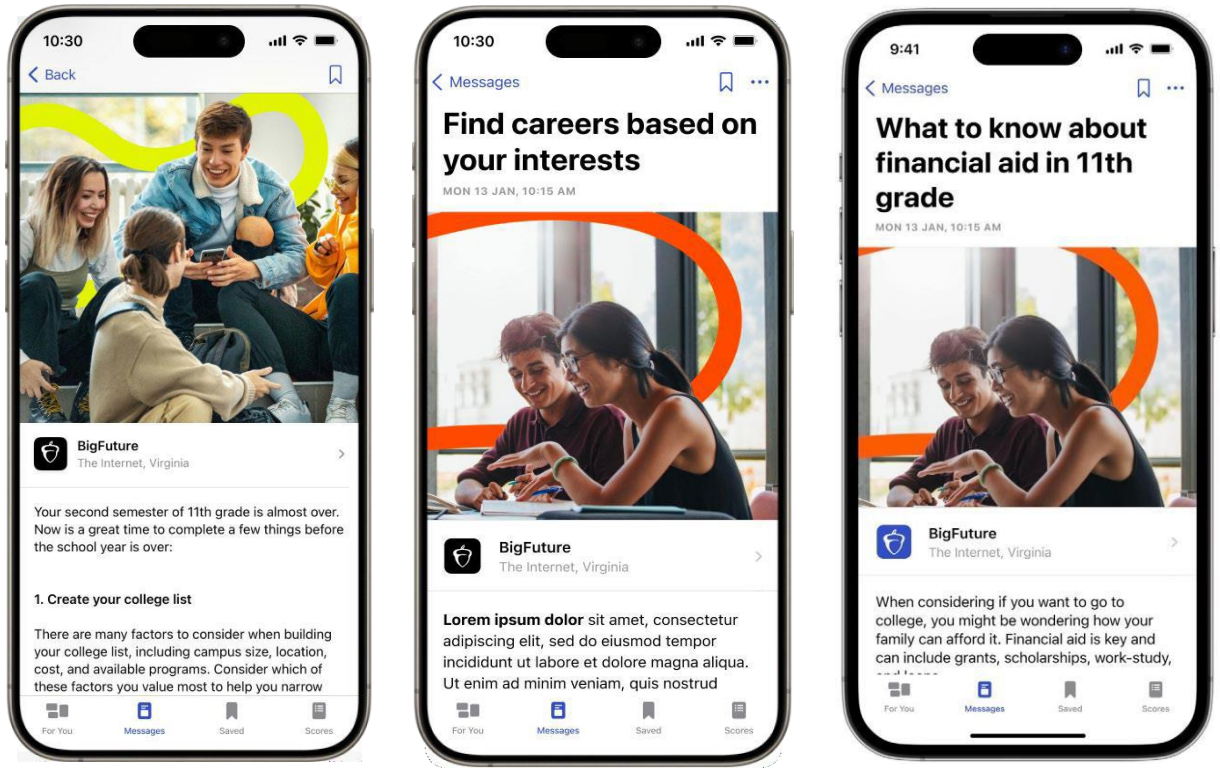


Career Insights Snapshot

Career Explorer to discover more

Customized Messages on Colleges, Careers and How to Pay for It

Students can discover guidance and tips based on time of year, grade level, and more.

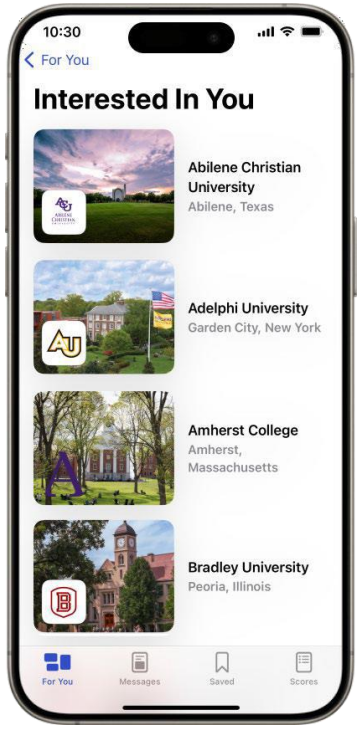


"The feature of saving messages is also a great tool because it will **help students not lose important information** they might forget about."

BigFuture School student user

Connections™: Primary way in-school testers can be recruited

If a student opts in, they'll receive messages from nonprofit institutions—without sharing any personally identifiable information.



Institutions Interested in You

Institution Message

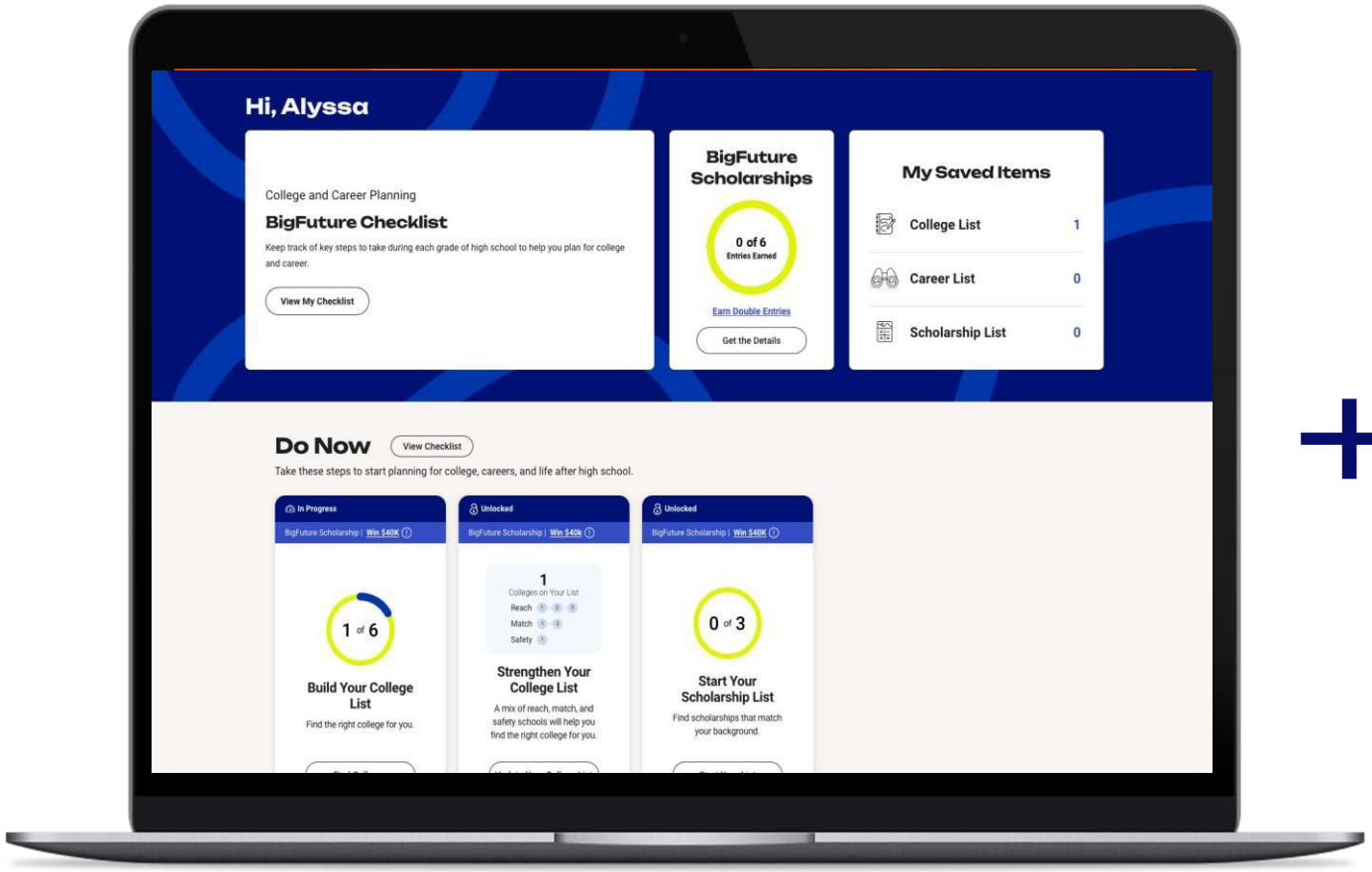
Request Information

Example: View for a student who is opted in to Connections

Example: Students can learn more and choose if to connect directly with an institution, outside of the BigFuture School app

BigFuture.org Continues to Be an Option

Free Planning Guide to Help Students Take the Right First Step After High School



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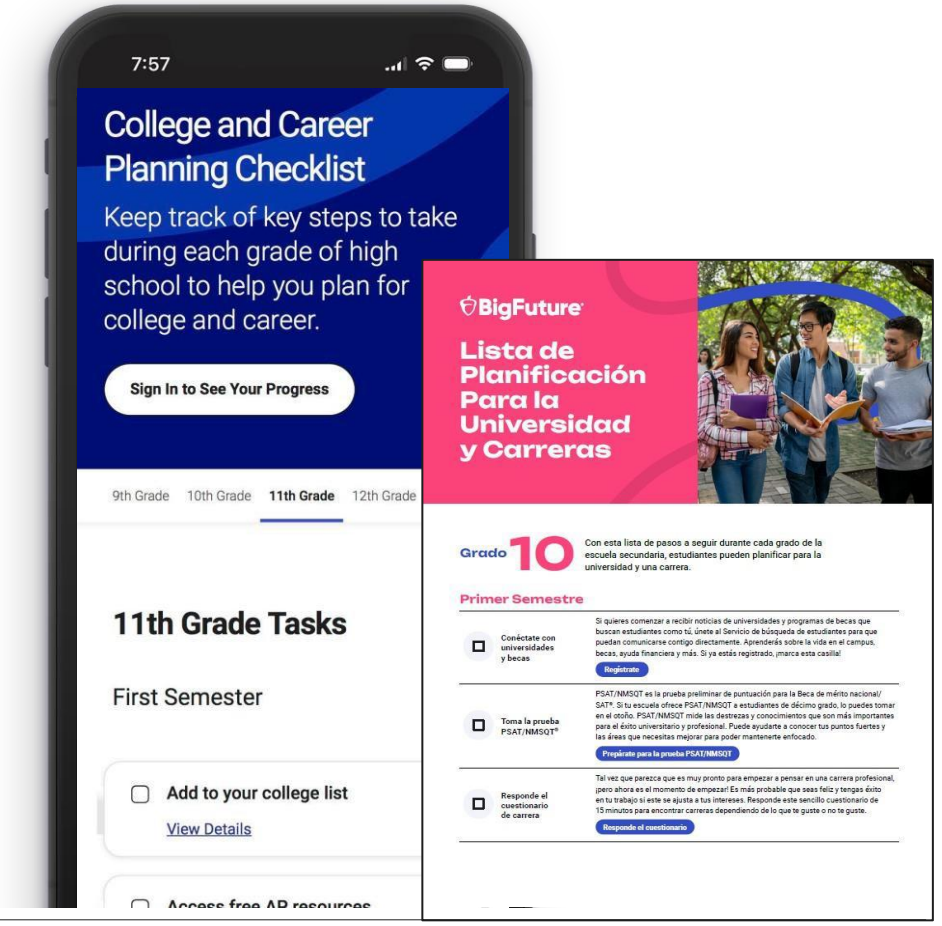


Using BigFuture School and bigfuture.org

BigFuture School Mobile App

Control by in-school test takers over their college and career planning.

Primary way for in-school test takers to be recruited by nonprofit colleges, scholarship providers, and gov't agencies offering education programs—without sharing Personal Identifiable Information (PII).

Quick access to their scores and timely planning messages—right on their phone.

Access for YOU for info on your students' engagement in the app via the K–12 Reporting Portal.

bigfuture.org

Free use for students at any time to access trusted, personalized guidance.

A personalized dashboard for students to plan for what's next

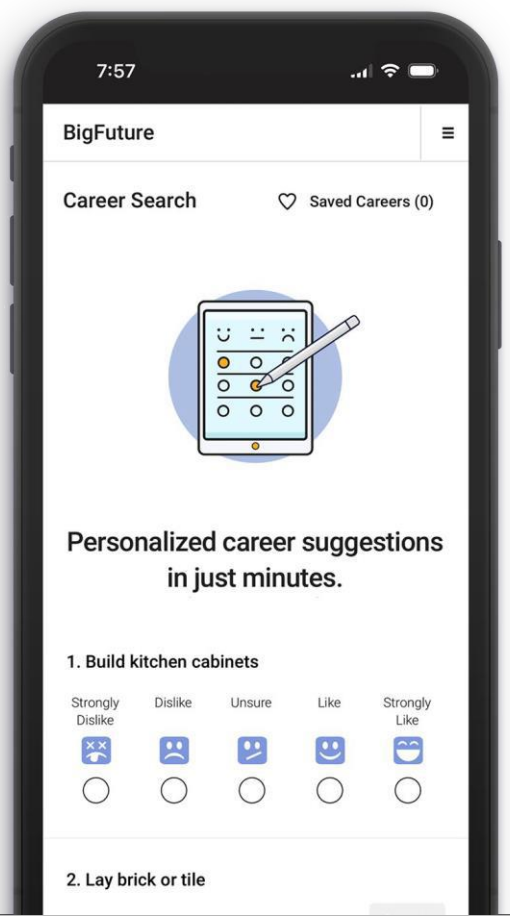
Access tools to explore careers, plan for college, and pay for college.

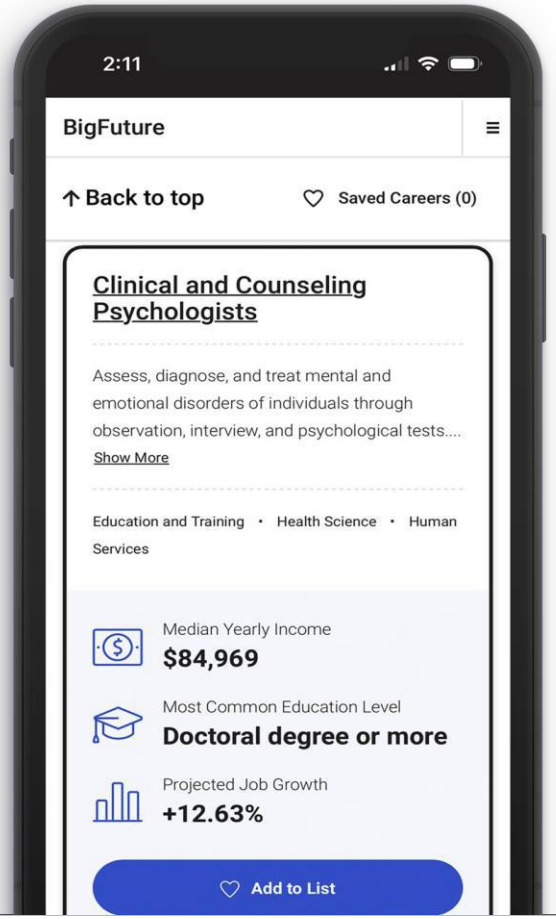
Hundreds of $500 scholarship winners and two $40,000 scholarship awarded monthly.

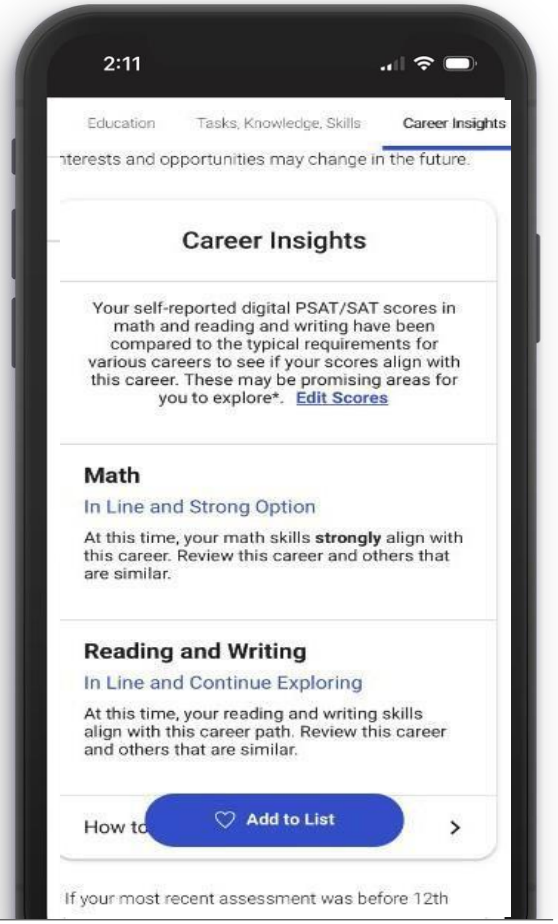
BigFuture Career Exploration

Personalized guidance on college, career, and financial planning

Nearly 1,000 careers to discover based on students' interests and skills.



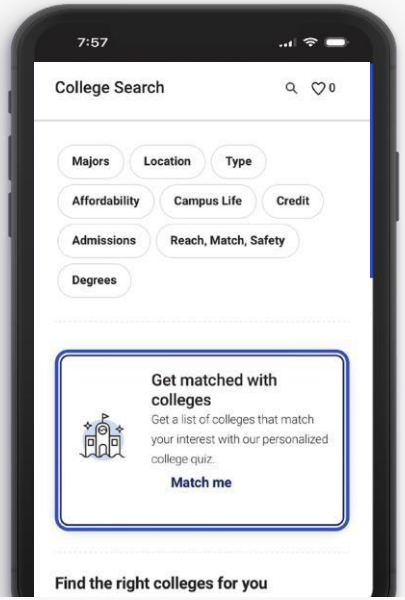




BigFuture College and Career Planning

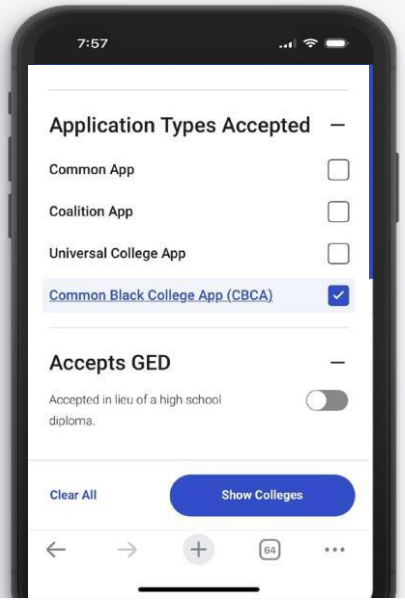
College Search

Explore over 2,400 4-year colleges and over 1,600 2-year and certificate programs



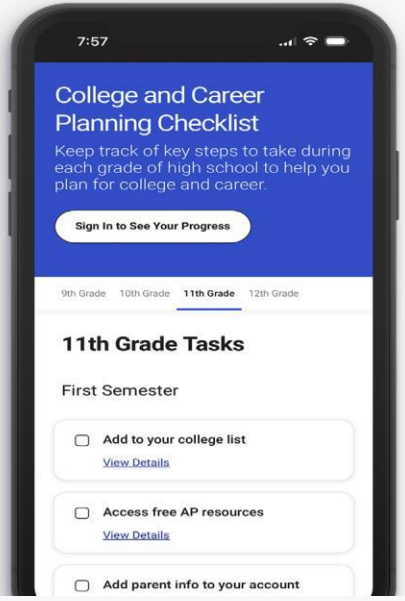
Common Black College Application

Filter and learn about 60+ Historically Black Colleges and Universities



Planning Checklists

Keep track of key tasks to complete in each grade of high school



National Recognition Programs

Celebrating Student Success

Students can submit in 10th or 11th grade based on:

1. Earning a cumulative GPA of B+ or higher by the time of submissions.
2. Identifying as Black or African American, Hispanic or Latino, Indigenous or Native, and/or attend school in a rural area or small town.

AND

3a. Take the Fall PSAT/NMSQT (10th or 11th) or Spring PSAT 10 (10th) and score in the top 10% of test takers from their award program in their state.

OR

3b. Earn a 3+ on 2 or more AP Exams in 9th and/or 10th grade.

BigFuture Scholarships

Qualify for BigFuture Scholarships

Starting in 10th grade students earn entries for monthly drawings completing steps on their dashboard.

Two **$40,000** scholarships and hundreds of **$500** scholarships are awarded each month!

BigFuture Scholarships

Qualify for BigFuture Scholarships

Start Your College List

Opens: December of Sophomore Year. Closes: June of Junior Year.

Start

Start Your Career List

Opens: December of Sophomore Year. Closes: February of Senior Year

Start

Start Your Scholarship List

Opens: July Before Senior Year. Closes: February of Senior Year.

Start

Strengthen Your College List

Opens: July Before Senior Year. Closes: October of Senior Year.

Strengthen

Complete the FAFSA®

Opens: October of Senior Year. Closes: February of Senior Year.

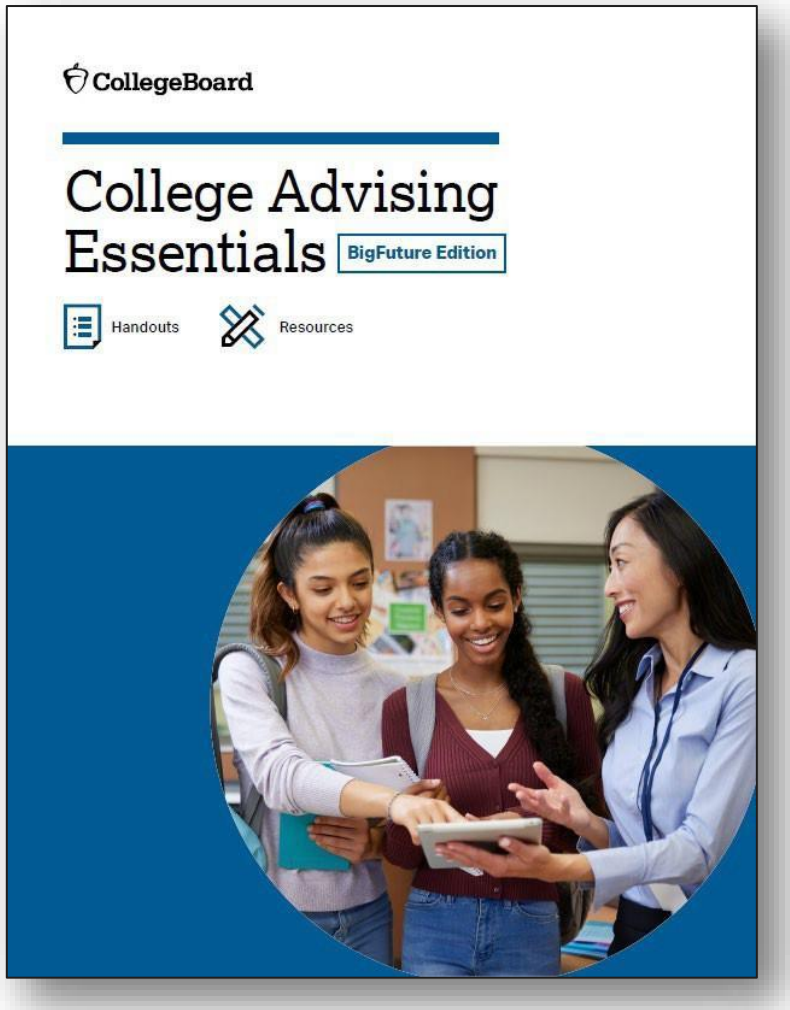
Complete

Apply to Colleges

Opens: October of Senior Year. Closes: February of Senior Year.

Apply

College Advising Essentials: BigFuture Edition



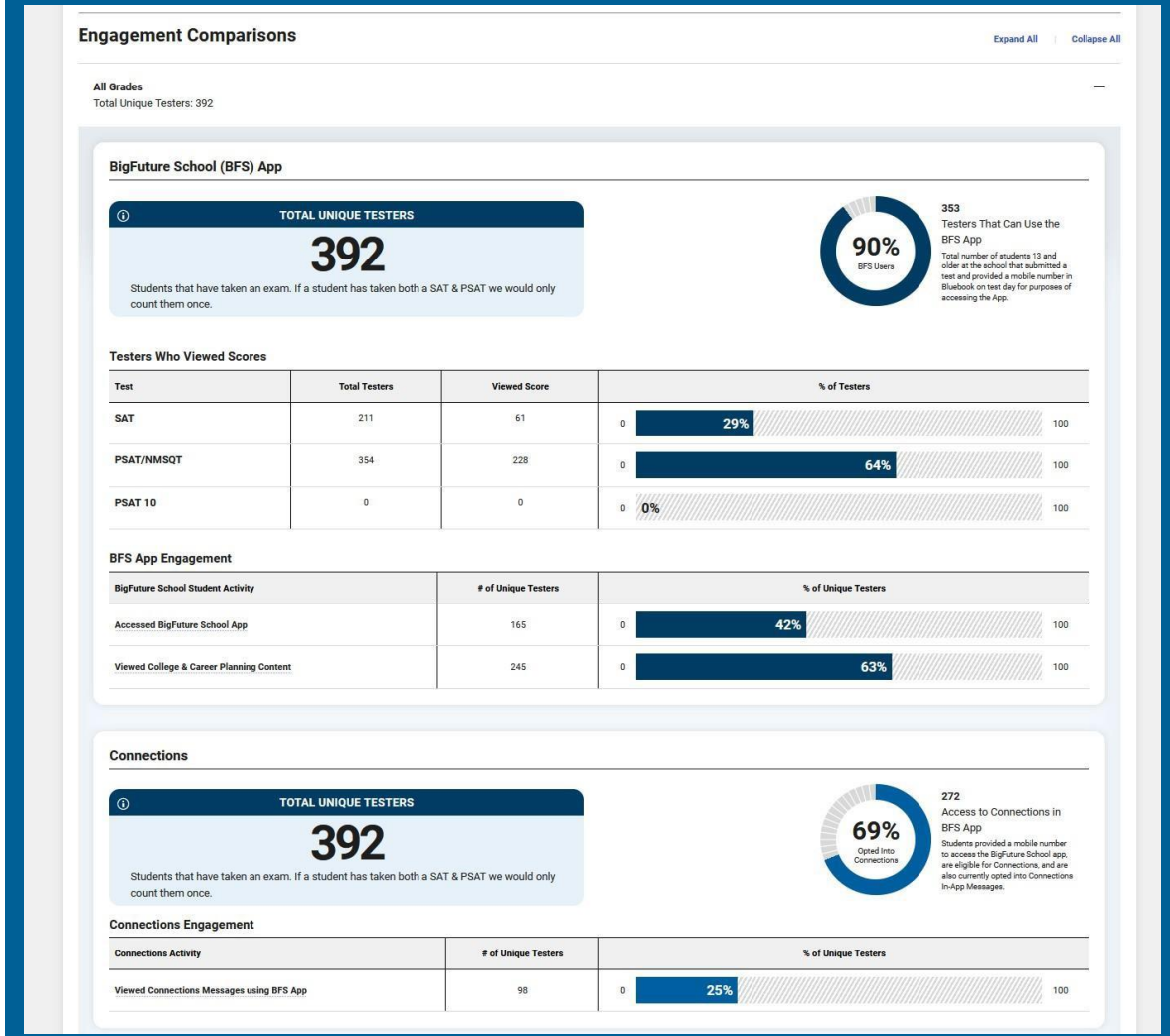
- Sixth installment to the **College Advising Essential** series
- **Handouts and resources** available **for counselors** and for use with students and families.
- **Featuring:** BigFuture School handouts, College and Career Planning checklists, and a BigFuture Scholarships worksheet

https://counselors.collegeboard.org/media/pdf/College%20Advising%20Essentials%20BigFuture%20Edition.pdf

Engagement Report

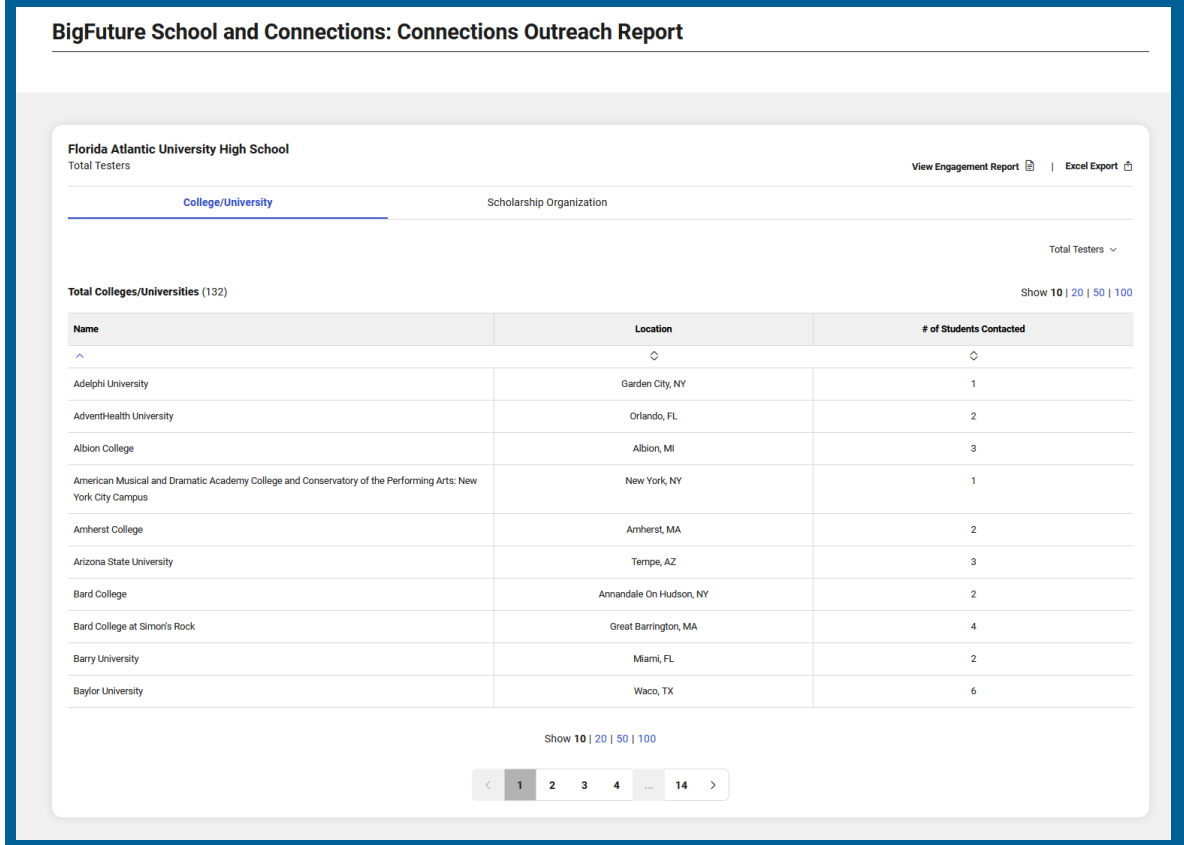
Use this report to:

- View overall and grade-level Aggregate data on your students' use and participation in the BigFuture and Mobile App and Connections.
- BigFuture School (BFS) App Engagement: View the number of student that have accessed the BFS app and viewed test scores and college and career planning content.
- Connections: View the number of students opted into connections who have viewed connections messages using the BFS App.
- Districts can view engagement at the district as well as at each of their schools.



Connections Outreach Report

- View a list of nonprofit colleges, universities and scholarship organizations that have delivered messages through Connections to their students in the Bigfuture School mobile app.
- You can view the total number of students each organization has made outreach to.



BigFuture School and Connections: Connections Outreach Report

Florida Atlantic University High School
Total Testers

View Engagement Report | Excel Export

College/University | Scholarship Organization

Total Testers

Total Colleges/Universities (132)

Show **10** | 20 | 50 | 100

Name	Location	# of Students Contacted
Adelphi University	Garden City, NY	1
AdventHealth University	Orlando, FL	2
Albion College	Albion, MI	3
American Musical and Dramatic Academy College and Conservatory of the Performing Arts: New York City Campus	New York, NY	1
Amherst College	Amherst, MA	2
Arizona State University	Tempe, AZ	3
Bard College	Annandale On Hudson, NY	2
Bard College at Simon's Rock	Great Barrington, MA	4
Barry University	Miami, FL	2
Baylor University	Waco, TX	6

Show **10** | 20 | 50 | 100

1 2 3 4 ... 14

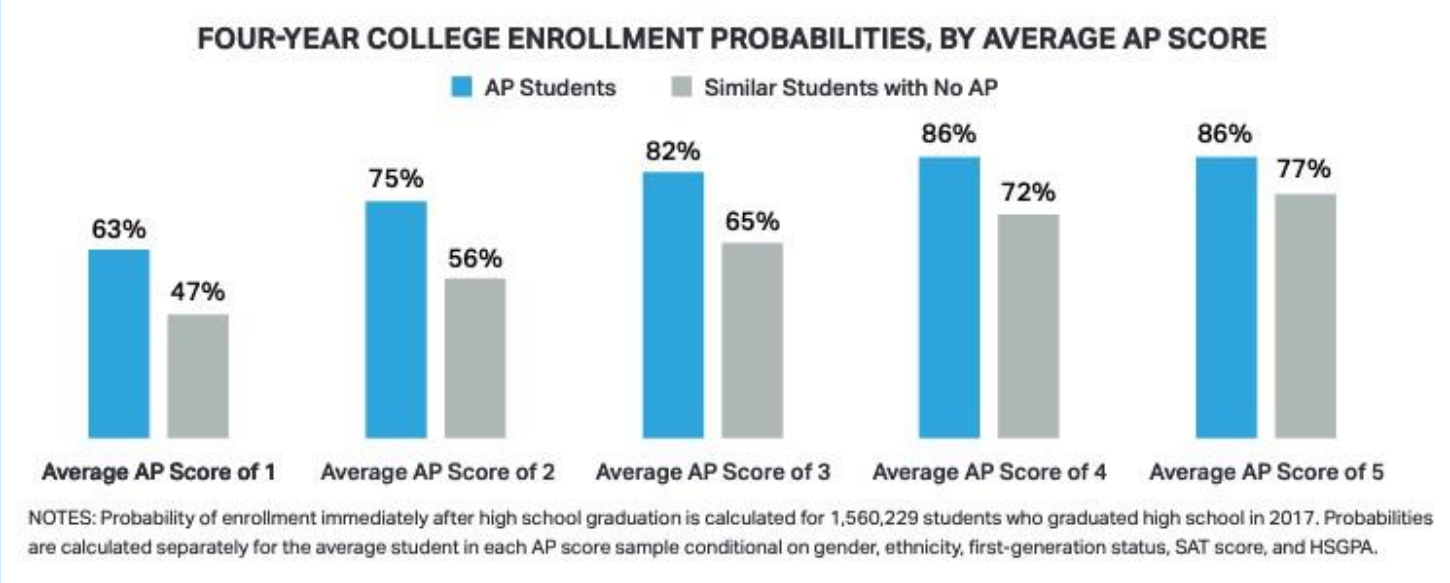
Advanced Placement

Advanced Placement

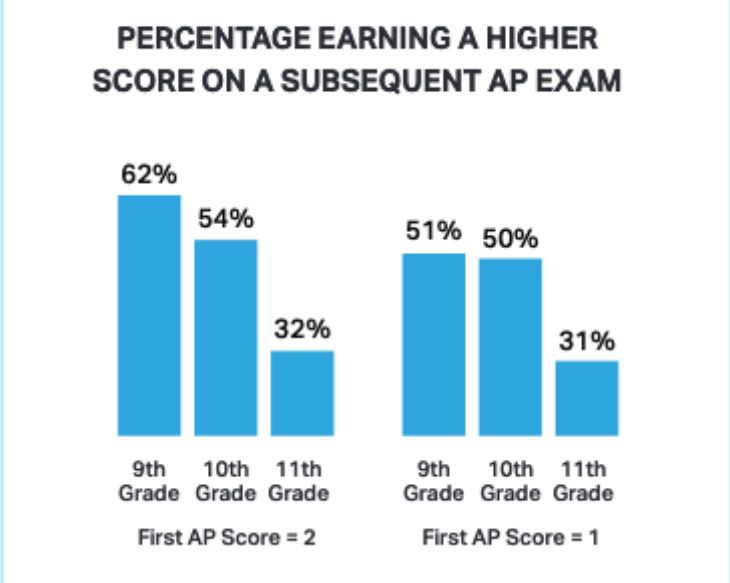
AP gives students the chance to tackle college-level work in high school and earn college credit and placement..

Participation Matters

New findings on the AP experience show that regardless of the score, completing an AP Exam has benefits.



AP students, including those with average scores of 1 or 2, are more likely to enroll in a four-year college compared to academically similar students who did not take AP in high GAhool.



Many students who first earn an AP Exam score of 1 or 2 will then earn a higher score on the subsequent AP Exams they take.

Source: https://research.collegeboard.org/pdf/new-analyses-ap-scores-1-and-2.pdf

Why Texas students take part in Advanced Placement each year

CCMR: Meet TSI Criteria on AP Exams

A graduate meeting the criterion score of 3 or higher on an AP Exam.

Performance Acknowledgements

A graduate meeting the criterion score of 3 or higher on an AP Exam.

Stand Out and Get Ahead

Stand out in the college application process.

Texas AP Credit Policy

Tuition and Book Savings

More likely to enroll in year 2 at a postsecondary institution.

Texas Supports AP Access

AP Exam Subsidies

ESC Partnerships

Teacher Training Reimbursement (TTR)

2024 AP Exam Results Texas

361,162 Texas Public School Students took an AP Exam.

- This reflects an 8% increase over 2023.

Texas public school students took 672,552 AP Exams.

- This reflects a 12% increase over 2023.

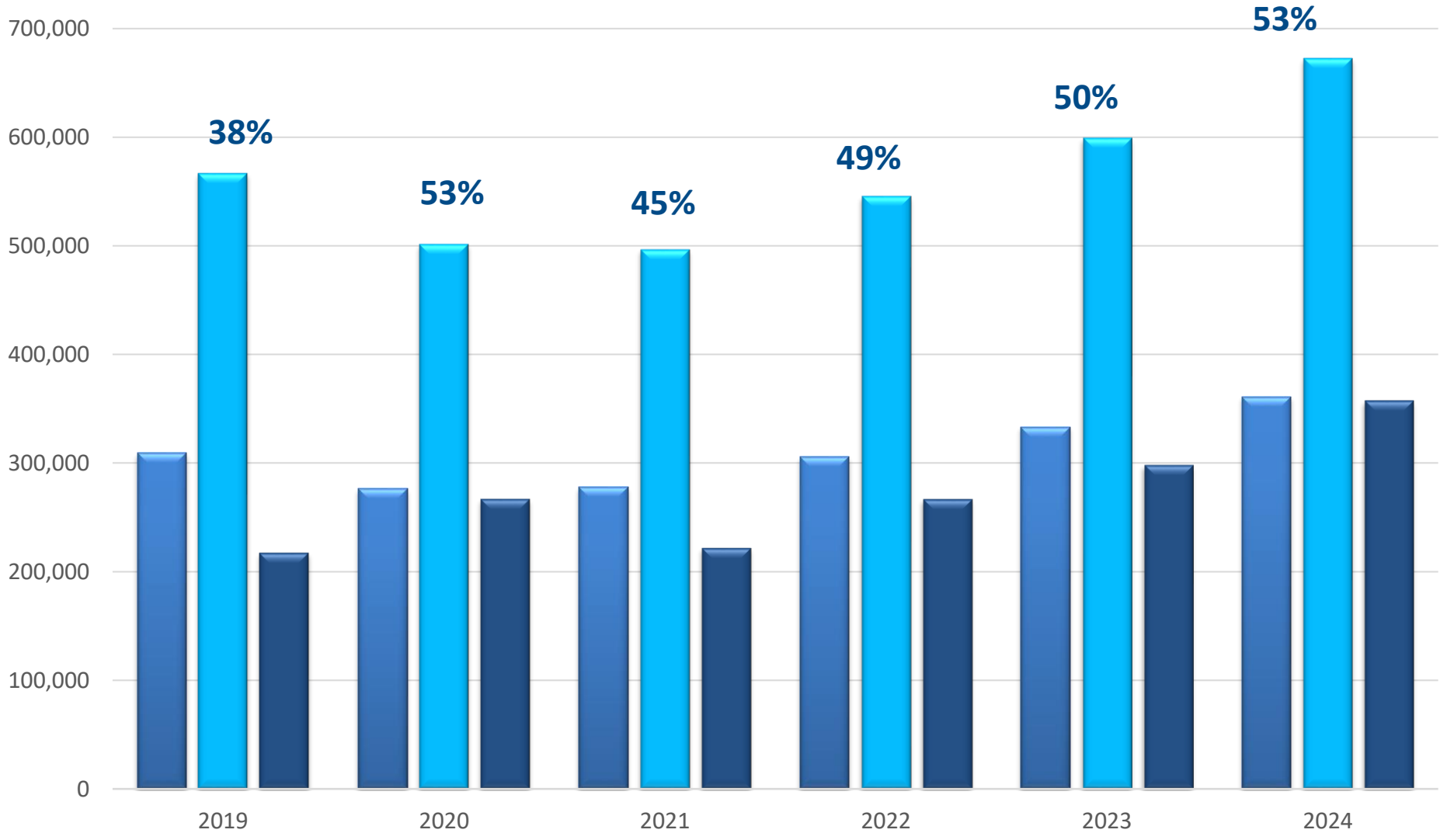
357,292 AP Exams taken by Texas public school students achieved a score of 3 or higher.

- This represents 53% of Exams taken.
- This reflects a 20% increase over 2023.

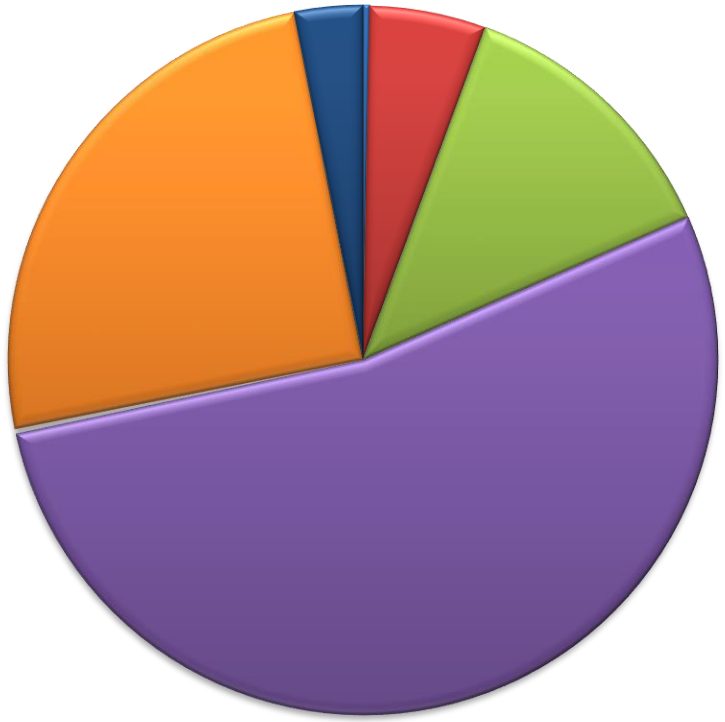
151,850 AP Examinees from Texas public schools qualified for a College Board fee reduction and TEA subsidy.

- This reflects 42% of Texas examinees, a 2% increase over 2023.

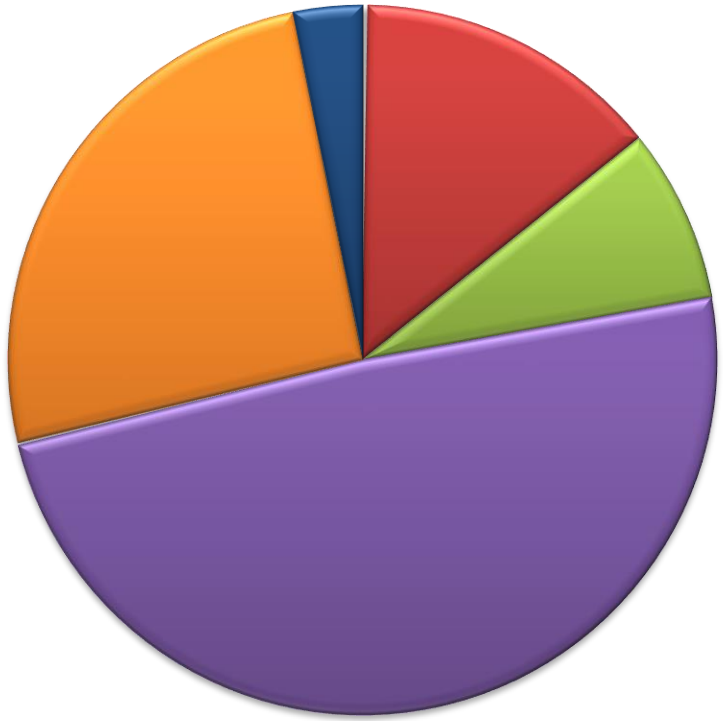
Advanced Placement Trends in Texas



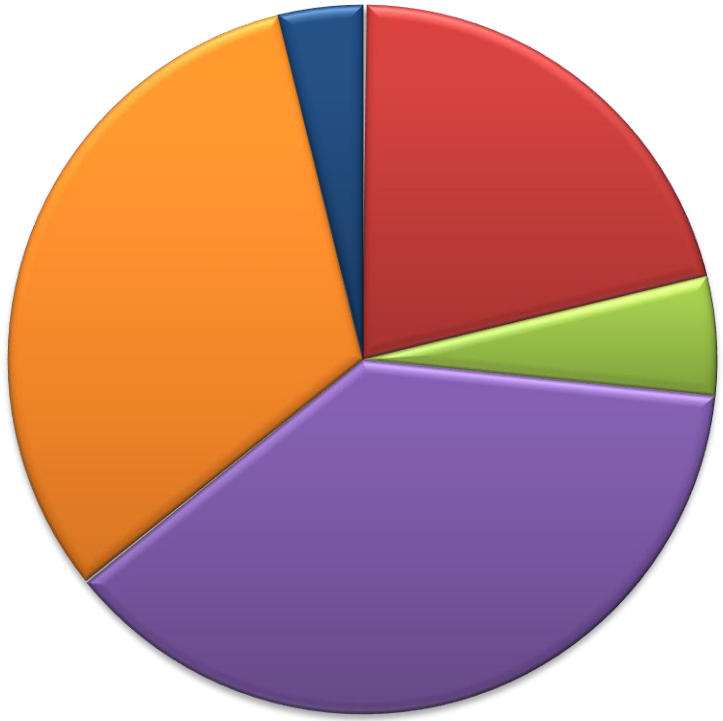
Texas Public Schools Enrollment by Ethnicity



Texas Public Schools 2024 AP Participation by Ethnicity



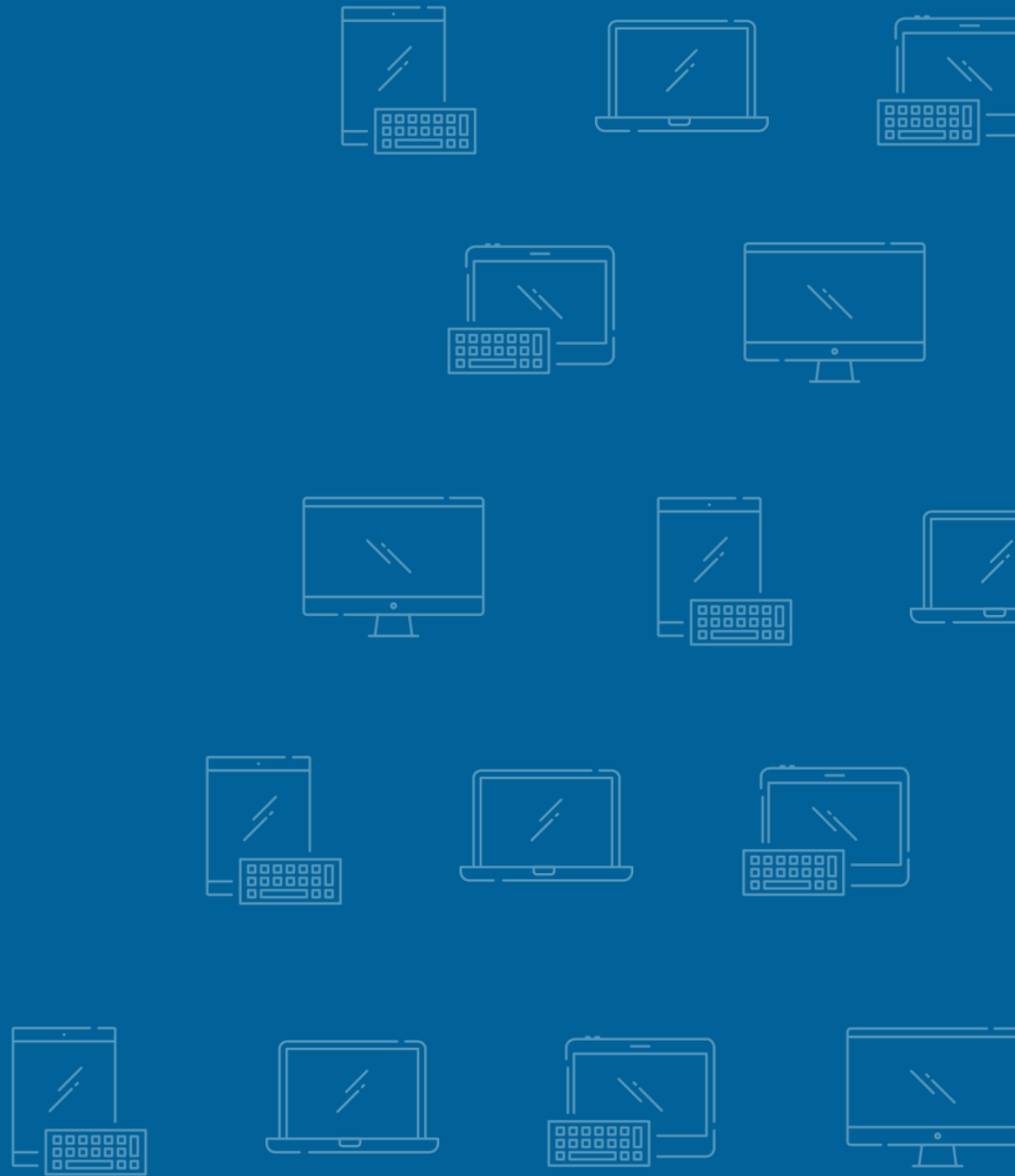
Texas Public Schools 2024 AP Score of 3+ by Ethnicity



2024 AP Exam Participation and Performance
U.S. and Texas Public Schools

Group	Number of AP Test Takers	% Change in AP Test Takers from Prior Year	Number of AP Examinees who qualified for a fee reduction	Percent of AP Examinees who qualified for a fee reduction	Number of Exams Taken	% Change in Number of Exams Taken from Prior Year	Number of Exams Scoring 3+	Percent of Exams Scoring 3+	% Change in Scores of 3+ from Prior Year
Nation (public)	2,648,896	7.2%	767,751	29%	4,865,144	10.6%	3,160,531	64.9%	19.4%
Texas (public)	361,162	**8.4%**	151,850	**42%**	672,552	**12.2%**	357,292	53.1%	**19.9%**

2025 AP Exam Schedule



2025 AP Exam Administration

May 2025

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1	2	3
4	5	6	7	8	9	10
	STANDARD ADMIN					
11	12	13	14	15	16	17
	STANDARD ADMIN					
18	19	20	21	22	23	24
	LATE ADMIN					
25	26	27	28	29	30	31

- Schools must begin the morning exam administration between 8 and 9 a.m. local time and the afternoon exam administration between 12 and 1 p.m. local time.
- Late-testing dates are available for students who cannot test during the first two weeks of May.
- Exams taken during late testing will be in the same format as exams taken during standard testing.

28 Exams Will Move to the Bluebook™ Digital Testing Application

2025 AP Exam Administration

Here’s What’s Happening

- Starting in May 2025, standard paper will be discontinued for 28 exams.
- All schools, including schools and test centers outside of the United States, must administer the 28 AP Exams digitally.
- Students will take digital exams in Bluebook, the same platform used for the SAT Suite of Assessments.
- AP coordinators and proctors will administer digital exams using the Test Day Toolkit web application.
- For math, science, and economics exams that require graphing or symbolic notation, students will view free-response questions and prompts in Bluebook and write their answers in paper exam booklets.

Digital Exams

Bluebook™

Fully Digital Exams

16 Exams

Hybrid Digital Exams

12 Exams

AP Digital Portfolio

6 Exams

Chinese & Japanese Exam Application

2 Exams

Remaining **Paper Exams** Require Secure Audio

Language & Music Exams with Audio Files

6 Exams

Fully Digital Exams

Students complete multiple-choice and free-response questions in Bluebook, with all responses automatically submitted at the end of the exam.

Fully Digital AP Exams

Students complete multiple-choice and free-response questions in Bluebook, with all responses automatically submitted at the end of the exam.

- AP African American Studies
- AP Art History
- AP Comparative Government and Politics
- AP Computer Science A
- AP Computer Science Principles
- AP English Language and Composition
- AP English Literature and Composition
- AP Environmental Science
- AP European History
- AP Human Geography
- AP Latin
- AP Psychology
- AP Seminar
- AP U.S. Government and Politics
- AP United States History
- AP World History: Modern

Hybrid Digital Exams

Students complete multiple-choice questions and view free-response questions in Bluebook.

They hand write their free-response answers in paper exam booklets that are returned for scoring.

Hybrid Digital AP Exams

Students complete multiple-choice questions and view free-response questions in Bluebook. They hand write their free-response answers in paper exam booklets that are returned for scoring.

- AP Biology
- AP Calculus AB
- AP Calculus BC
- AP Chemistry
- AP Macroeconomics
- AP Microeconomics
- AP Physics 1: Algebra-Based
- AP Physics 2: Algebra-Based
- AP Physics C: Electricity and Magnetism
- AP Physics C: Mechanics
- AP Precalculus
- AP Statistics

Other Digital AP Exams

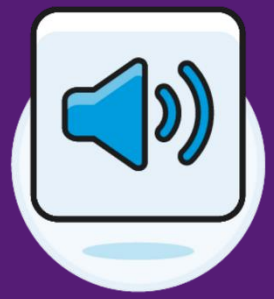
AP Digital Portfolio

- AP 2-D Art and Design
- AP 3-D Art and Design
- AP Computer Science Principles
- AP Drawing
- AP Research
- AP Seminar

Chinese & Japanese Exam App

- AP Chinese Language and Culture
- AP Japanese Language and Culture

All 6 Remaining Paper Exams Require Secure Audio



Exams with Audio Files

- AP French Language and Culture
- AP German Language and Culture
- AP Italian Language and Culture
- AP Music Theory
- AP Spanish Language and Culture
- AP Spanish Literature and Culture

Supporting Student Access To Advanced Placement

AP Computer Science Principles starts a path to STEM.

Students are better prepared for today's fields of study and tomorrow's job market.

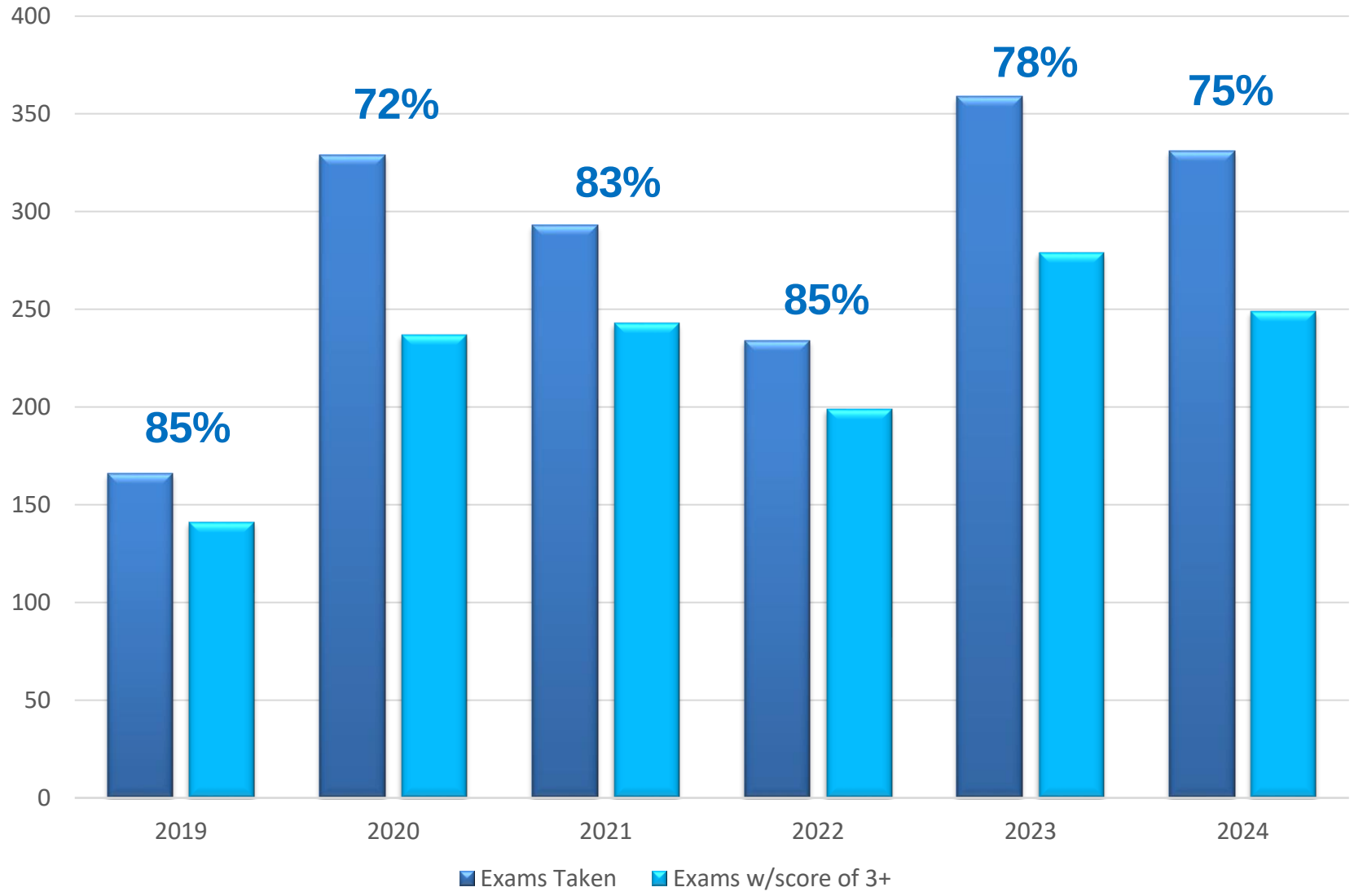
Employment in computer and information technology occupations is **projected to grow 11% from 2019 to 2029, much faster than the average for all occupations**.

These occupations are projected to add about **531,200 new jobs**.

Demand for these workers will result from a greater emphasis on **cloud computing**, the collection and storage of **big data**, and **information security**.

In total, **11+ million STEM jobs** are anticipated to be available in the next decade. Half will require a computer science degree, and **all will require computer science skills**.

CFISD AP CSP


400
350
300
250
200
150
100
50
0
85%
72%
83%
85%
78%
75%
2019
2020
2021
2022
2023
2024
Exams Taken
Exams w/score of 3+

TEA AP CSP Grant

LASO Cycle 3 Opens 10/15/2024

LASO Cycle 3

Strategy	Grant	Estimated Funding	Source of Funds	Tentative Award Range	Tentative Number of Awards
	Strong Foundations Planning	$24M	Rider 76 (SF) Rider 94 (HB 1605)	$120K to $320K	100 - 200 LEAs
	Strong Foundations Implementation	$58M	Rider 76 (SF) Rider 94 (HB 1605)	$200K to $1.61M	100 - 200 LEAs
	Strong Foundations Implementation School Improvement PLC Supports Grant	$14M	Title 1	$75K - $150K per campus	100-180 LEAs
	Instructional Leadership (Includes Product and TIL Supports)	$41M	Title 1	$50K - $215K per campus	Up to 200 LEAs
	Technology Lending	$5M	Rider 8	Up to $225K	50-100 LEAs
	Blended Learning	$6M	Rider 68	Planning - up to $275K Strategic Operations- up to $370K	10-14 LEAs
	AP Computer Science Principles	$1.292M	Rider 74	Up to $100K	Up to 130 LEAs
	Additional Days School Year PEP Summer	$750K	Rider 39	Up to $125K	6-10 LEAs
	School Action Fund (with Additional Days School Year Full Year Redesign)	$8M	Title 1	$185K - $375K (per campus)	Up to 36 campuses
	Early College High School	$800K	Rider 58	Up to $800K	10 LEAs
	Pathways in Technology Early College High School	$1M	Rider 58	Up to $100K	10 LEAs

AP Seminar.

A course focused on building foundational skills in writing, collaboration, research, and presentation.

Higher First-Year GPAs: AP Seminar students were shown to outperform peers who didn't take AP in first-year college GPA.

Greater Second-Year Retention: AP Seminar students have higher likelihood of persisting to the second year of college than peers who didn't take AP.

What's So Special About AP Seminar?

1

Focuses on essential skills that matter most for college, career, and life.

2

Encourages students to explore topics that interest them.

3

Brings real-world relevance to the classroom.

4

Aligns closely with the skills taught in English II classes.

Focuses on essential skills that matter most for college, career, and life

- Communication
- Collaboration
- Teamwork
- Responsibility
- Interpersonal Skills
- Intrapersonal Skills
- Leadership
- Synthesis
- Analysis
- Critical Thinking
- Time Management
- Organization
- Planning
- Computing Skills

*Lyons, M. (2023). 5 Essential Soft Skills to Develop in Any Job. Harvard Business Review. Retrieved from: **https://hbr.org/2023/02/5-essential-soft-skills-to-develop-in-any-job**.*

Transforms English II classrooms

84% of TX students

earned a qualifying score of 3 or higher.

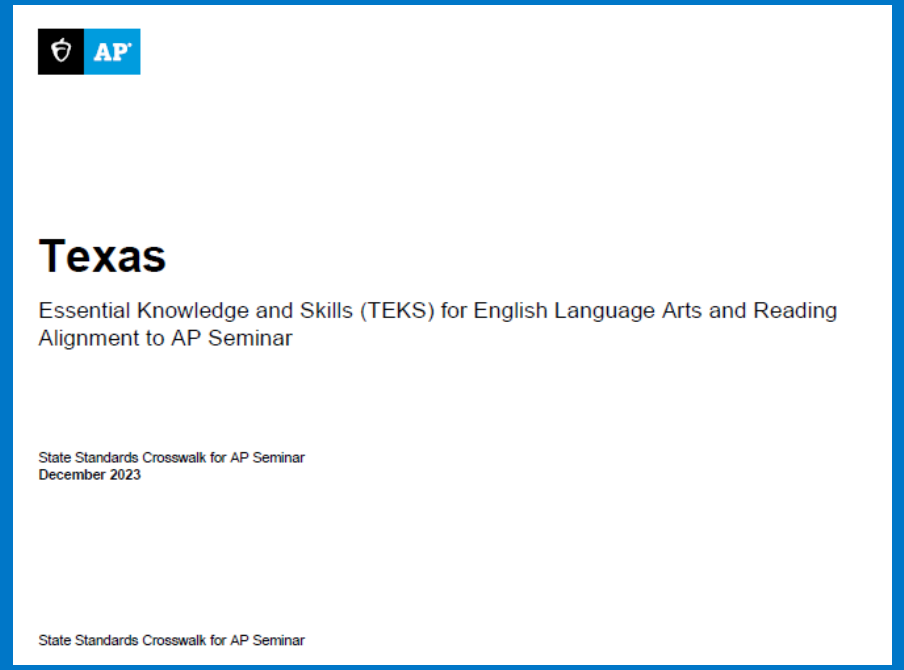
AP Seminar transforms English II classrooms by focusing on:

- **Content-agnostic approach**
- **Project-based assessments**
- **Student choice**
- **Teacher flexibility**

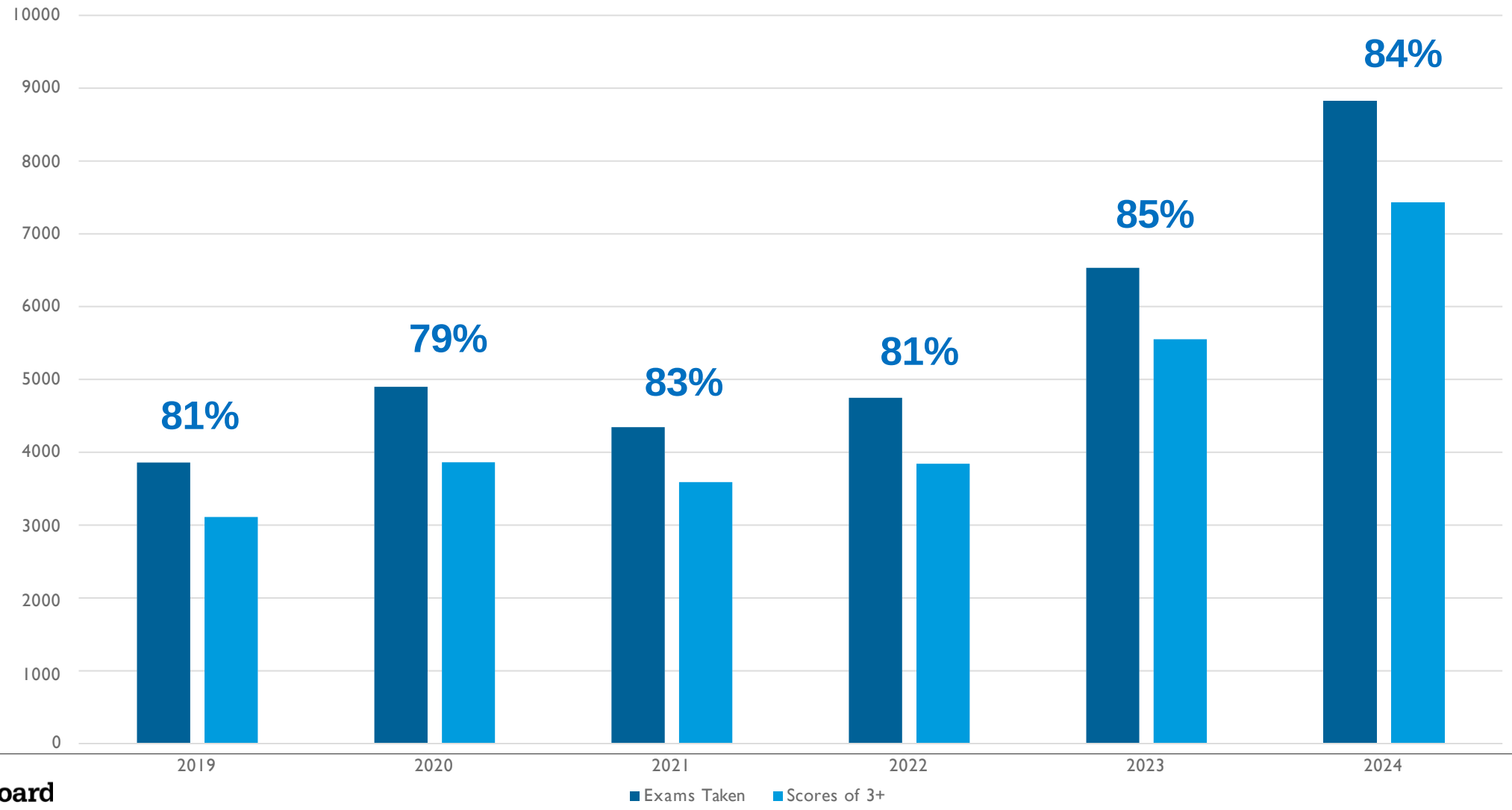
Aligns closely with the skills taught in English II classes

Key Skills Emphasized in AP Seminar:

- Reading and analyzing a wide range of texts, both literary and informational texts
- Extended explanatory and argumentative writing
- Conducting effective research, and synthesizing relevant and credible evidence
- Designing and delivering of oral/multimedia presentations (both individual and team)



AP Seminar in Texas



Boosts academic performance in future coursework

6% **Higher Performance in AP English** (Lang., Lit.)

7% **Higher Performance in AP History** (Art, Euro, U.S., World)

8% **Higher Performance in AP Politics** (U.S., Comp.)

Higher First-Year GPAs:
AP Seminar students were shown to outperform non-AP students in first-year college GPA.

Greater Second-Year Retention:
AP Seminar students have higher likelihood of persisting to the second year of college than their non-AP peers.

*Source: **https://files.eric.ed.gov/fulltext/ED603711.pdf***

AP African American Studies: foster dialogue, celebrate lived experiences.

Daily encounters with sources from fields such as literature, the arts and humanities, political science, and geography.

Students who take AP African American Studies are thriving.

More likely to take and succeed in college-level courses.

- 84% of students indicated they are more likely to enroll in future college-level courses.
- For 29% of students this was their first experience taking AP.

Deep dive into relevant interests

- Students spend 3 full weeks on an interdisciplinary project on a related topic of their choice.

Preparation for a wide range of careers

- Students gain knowledge and skills that prepare them for professions like:
  - Author
  - Lawyer
  - Journalist
  - Teacher
  - Diplomat
  - Filmmaker

AP African American Studies in Texas (2024)

1,300+
Students Enrolled

924
Exams Taken

64%
Exams Scored 3+

AP Precalculus keeps opportunities open.

Taking precalculus in high school increases a student's likelihood of completing a bachelor's degree by 155%.

Schools are choosing AP Precalculus for their students.

More than 175,000 students took the AP Precalculus Exam in 2024.

Students are succeeding. 3 out of 4 students scored 3 or higher.

Seniors earned their first college math credit. 1 out of 2 seniors scored 3 or higher.

AP Precalculus in Texas (2024)

27,500+
Students Enrolled

21,689
Exams Taken

63%
Exams Scored 3+

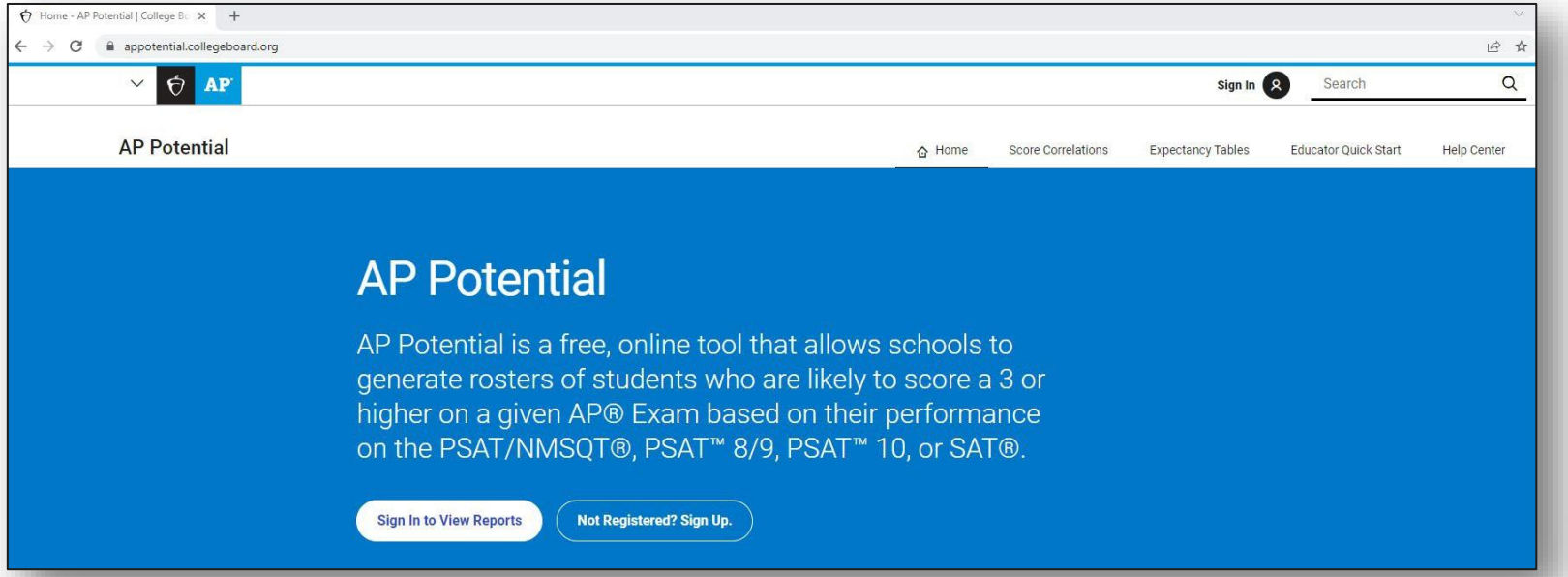
AP Potential

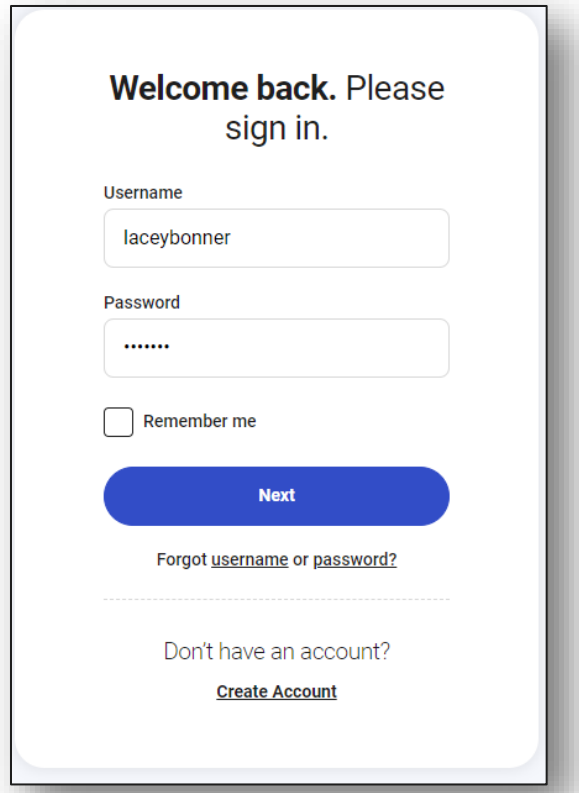
AP Potential is a research-driven, free online tool designed to help schools expand access to their AP Programs based on likely student outcomes.

It has two primary purposes for schools:

- Generate rosters of students who are likely to score a 3 or higher on a given AP Exam based on their performance on the PSAT/NMSQT, PSAT8/9,PSAT10, or SAT.
- Help schools better plan their master schedules by allowing them to determine which new courses to consider adding, and which existing courses to expand, given their students' potential to succeed.

Logging in to the AP Potential Tool





- Navigate to appotential.collegeboard.org
- Enter your College Board professional account username and password

AP Potential Student Pools

Student Pools

Adjust the percentages below to increase or decrease the number of students included on the rosters you want to generate. You may select a different percentage for each AP subject. Learn about student pools

Threshold %	Subject	2023-2024 Students with AP Potential	2022-2023 AP Students	
			Total Exams Taken	Exams Scored 3 or Higher
60	Art History	5966	60	49
60	Biology	6629	288	196
60	Calculus AB	2497	298	154
60	Chemistry	7028	194	147
60	Comparative Government and Politics	4960	0	0
60	Computer Science A	3023	385	295
60	Computer Science Principles	6629	361	280
60	English Language and Composition	5966	576	380

This is sample data for presentation purposes.

AP Potential

Generate a Student Roster

Generate Sample Letters | Download Data

Name	Grade	Art Hist	Biol	Calc AB	Chem	Comp Gov Pol	Comp Sci A	Comp Sci Prin	Eng Lang Comp	Eng Lit Comp	Env Sci	Euro Hist	Hum Geog	Macr Eco
		Pool: 60												
Student 1 (ID: 12345)	9th Grade													
Student 2 (ID: 12345)	10th Grade	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Student 3 (ID: 12345)	10th Grade	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Student 4 (ID: 12345)	9th Grade									✓				
Student 6 (ID: 12345)	9th Grade	✓	✓			✓		✓	✓	✓	✓	✓	✓	

This is sample data for presentation purposes.

AP Potential

Generate Letter

Parent or Guardian of [redacted]
27369 Palmer Blvd
Madison Heights, MI 48071-3243

Dear Parent or Guardian of [redacted]

We are very happy to share with you that [redacted] has been identified as a student with potential to succeed in Advanced Placement® (AP®) courses and exams. We believe that [redacted] should strongly consider taking, specifically, one or more of the following AP course(s):

Seminar

[redacted] 2022-2023 PSAT/SAT Suite of Assessments scores indicate the potential for success in the challenging AP course work in the subject(s) listed above. Research has shown that PSAT/NMSQT® scores, and by extension SAT® scores, are strong predictors of AP Exam success.

AP gives students the opportunity to take college-level courses while still in high school. Taking AP courses can help students achieve their college goals. Not only do the challenging courses better prepare students for college, but after taking an AP course, students can take the corresponding AP Exam, which could earn them valuable college credit and placement, and help reduce college costs. In addition, studies have shown that students who succeed in AP perform better in college and are much more likely than their peers to graduate from college in five years or less.

We encourage you and [redacted] to talk about [redacted] participating in AP. Visit www.collegeboard.org/apstudents to find information about how to get started, including a Conversation Starter for discussing AP with [redacted] counselor or teacher. Feel free to contact us to discuss this important opportunity. Contact Principal Taylor Swift at 555-555-1313 for more information.

Sincerely,

Taylor Swift

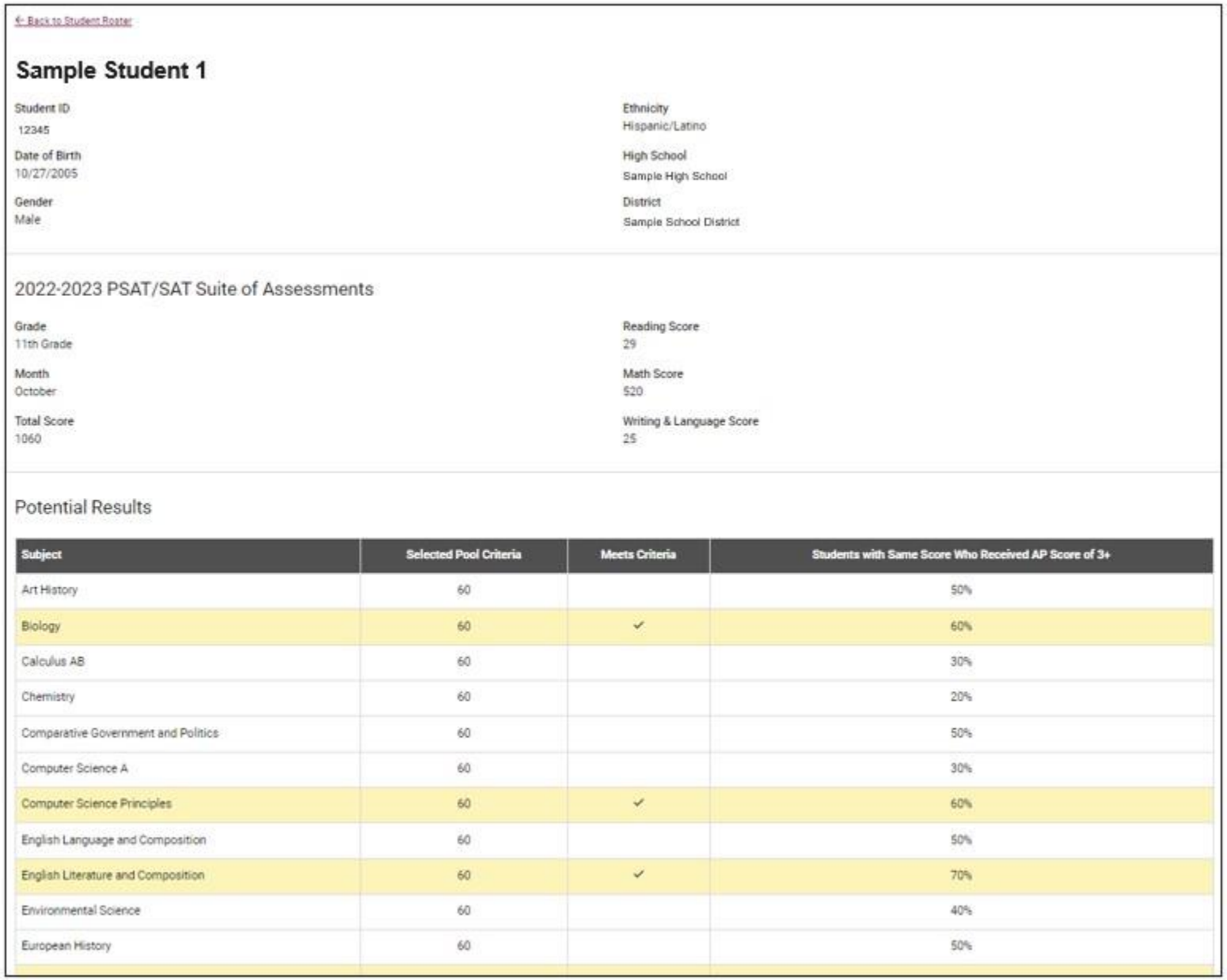
Learn more about AP

apstudent.collegeboard.org

AP Potential

Student Detail Report

- Gender
- Student ID
- Date of Birth
- Assessment Participation
- Ethnicity
- AP Potential



← Back to Student Roster

Sample Student 1

Student ID
12345

Date of Birth
10/27/2005

Gender
Male

Ethnicity
Hispanic/Latino

High School
Sample High School

District
Sample School District

2022-2023 PSAT/SAT Suite of Assessments

Grade
11th Grade

Month
October

Total Score
1060

Reading Score
29

Math Score
520

Writing & Language Score
25

Potential Results

Subject	Selected Pool Criteria	Meets Criteria	Students with Same Score Who Received AP Score of 3+
Art History	60		50%
Biology	60	✓	60%
Calculus AB	60		30%
Chemistry	60		20%
Comparative Government and Politics	60		50%
Computer Science A	60		30%
Computer Science Principles	60	✓	60%
English Language and Composition	60		50%
English Literature and Composition	60	✓	70%
Environmental Science	60		40%
European History	60		50%

This is sample data for presentation purposes.

AP Potential

Best Practices

Download the data to a .csv file for easy sorting and sharing with:

- Department Chairs and AP Teachers
- Teachers of Pre-AP/prerequisite courses
- Instructional Leaders
- Counselors

Sort AP Potential data to view students who have potential in AP Courses currently offered at your school.

Sort the data to help decide which AP courses to add to your school.

Generate AP Potential letters that can be sent home to parents/guardians and students.

Supporting Student Performance in Advanced Placement

AP Resources: Support Teaching and Learning

There's an AP resource for each stage of the instructional cycle.

Plan
- Unit Guides
- Professional Learning Videos

Teach
- AP Daily Videos
- Course-Specific Resources

Practice
- Topic Questions

Assess
- Progress Checks

Formative

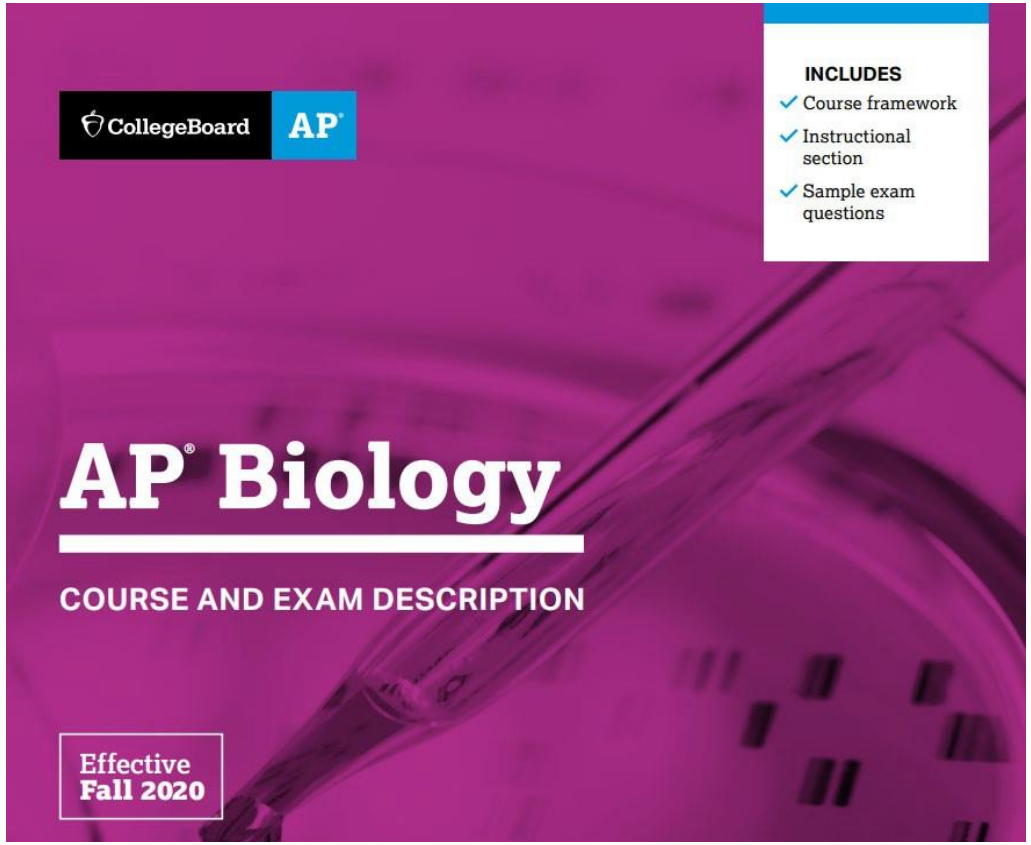
Get and Give Feedback
- All Assignments Report
- Progress Check Report
- Content & Skills Performance Report

Using Student Data

Review and Prepare
- Question Bank
- Practice Exams
- AP Daily Review Videos

Summative

AP Course and Exam Description



Course Framework Components

Overview

This course framework provides a clear and detailed description of the course requirements necessary for student success; it specifies what students must know, be able to do, and understand to qualify for college credit or placement.

The course framework includes two essential components:

1 SCIENCE PRACTICES

The science practices are central to the study and practice of biology. Students should develop and apply develop and apply the described practices on a regular basis over the span of the course.

2 COURSE CONTENT

The course content is organized into commonly taught units of study that provide a suggested sequence for the course. These units comprise the content and skills colleges and universities typically expect students to master to qualify for college credit and/or placement. This content is grounded in big ideas, which are crosscutting concepts that build conceptual understanding and spiral throughout the course.

Course at a Glance

Plan

The course at a glance provides a useful visual organization of the AP Biology curricular components, including:

- Sequence of units, along with approximate weighting and suggested pacing. Please note, pacing is based on 45-minute class periods, meeting five days each week for a full academic year
- Progression of topics within each unit
- Spiraling of the big ideas and science practices across units

Teach

SCIENCE PRACTICES

Science practices are spiralled throughout the course:

1 Concept Explanation
2 Visual Representations
3 Questions and Methods
4 Representing and Describing Data
5 Statistical Tests and Data Analysis
6 Argumentation

BIG IDEAS

The big ideas spiral across topics and units:

EVO Evolution
IST Information Storage and Transfer
ENE Energetics
SYI Systems Interactions

Assess

Assign the Personal Progress Checks—either as homework or in class—for each unit. Each Personal Progress Check contains formative multiple-choice and free-response questions. The feedback from the Personal Progress Checks shows students the areas where they need to focus.

UNIT 1 Chemistry of Life

~5-7 Class Periods | 8-11% AP Exam Weighting

- SYI 2 — 1.1 Structure of Water and Hydrogen Bonding
- ENE 2 — 1.2 Elements of Life
- SYI 2 — 1.3 Introduction to Biological Macromolecules
- SYI 1 — 1.4 Properties of Biological Macromolecules
- SYI 6 — 1.5 Structure and Function of Biological Macromolecules
- IST 2 — 1.6 Nucleic Acids

Personal Progress Check 1

Multiple-Choice: ~20 questions
Free-Response: 2 questions
- Conceptual Analysis (partial)
- Analyze Model or Visual Representation (partial)

UNIT 2 Cell Structure and Function

~11-13 Class Periods | 10-13% AP Exam Weighting

- SYI 1 — 2.1 Cell Structure: Subcellular Components
- SYI 6 — 2.2 Cell Structure and Function
- ENE 5 2 — 2.3 Cell Size
- ENE 2 — 2.4 Plasma Membranes
- ENE 3 — 2.5 Membrane Permeability
- ENE 3 — 2.6 Membrane Transport
- ENE 6 — 2.7 Facilitated Diffusion
- ENE 4 — 2.8 Tonicity and Osmoregulation
- ENE 1 — 2.9 Mechanisms of Transport
- ENE 6 — 2.10 Cell Compartmentalization
- EVO 6 — 2.11 Origins of Cell Compartmentalization

Personal Progress Check 2

Multiple-Choice: ~30 questions
Free-Response: 2 questions
- Interpreting and Evaluating Experimental Results (partial)
- Analyze Model or Visual Representation (partial)

UNIT 3 Cellular Energetics

~14-17 Class Periods | 12-16% AP Exam Weighting

- ENE 1 — 3.1 Enzyme Structure
- ENE 3 — 3.2 Enzyme Catalysis
- ENE 6 — 3.3 Environmental Impacts on Enzyme Function
- ENE 6 — 3.4 Cellular Energy
- ENE 6 — 3.5 Photosynthesis
- ENE 4 — 3.6 Cellular Respiration
- SYI 6 — 3.7 Fitness

Personal Progress Check 3

Multiple-Choice: ~20 questions
Free-Response: 2 questions
- Interpreting and Evaluating Experimental Results with Graphing (partial)
- Scientific Investigation (partial)

UNIT 4 Cell Communication and Cell Cycle

~9-11 Class Periods | 10-15% AP Exam Weighting

- IST 1 — 4.1 Cell Communication
- IST 1 — 4.2 Introduction to Signal Transduction
- IST 6 — 4.3 Signal Transduction
- IST 6 — 4.4 Changes in Signal Transduction Pathways
- ENE 6 — 4.5 Feedback
- IST 4 5 — 4.6 Cell Cycle
- IST 6 — 4.7 Regulation of Cell Cycle

Personal Progress Check 4

Multiple-Choice: ~25 questions
Free-Response: 2 questions
- Interpreting and Evaluating Experimental Results (partial)
- Analyze Data

UNIT 5 Heredity

~9-11 Class Periods | 8-11% AP Exam Weighting

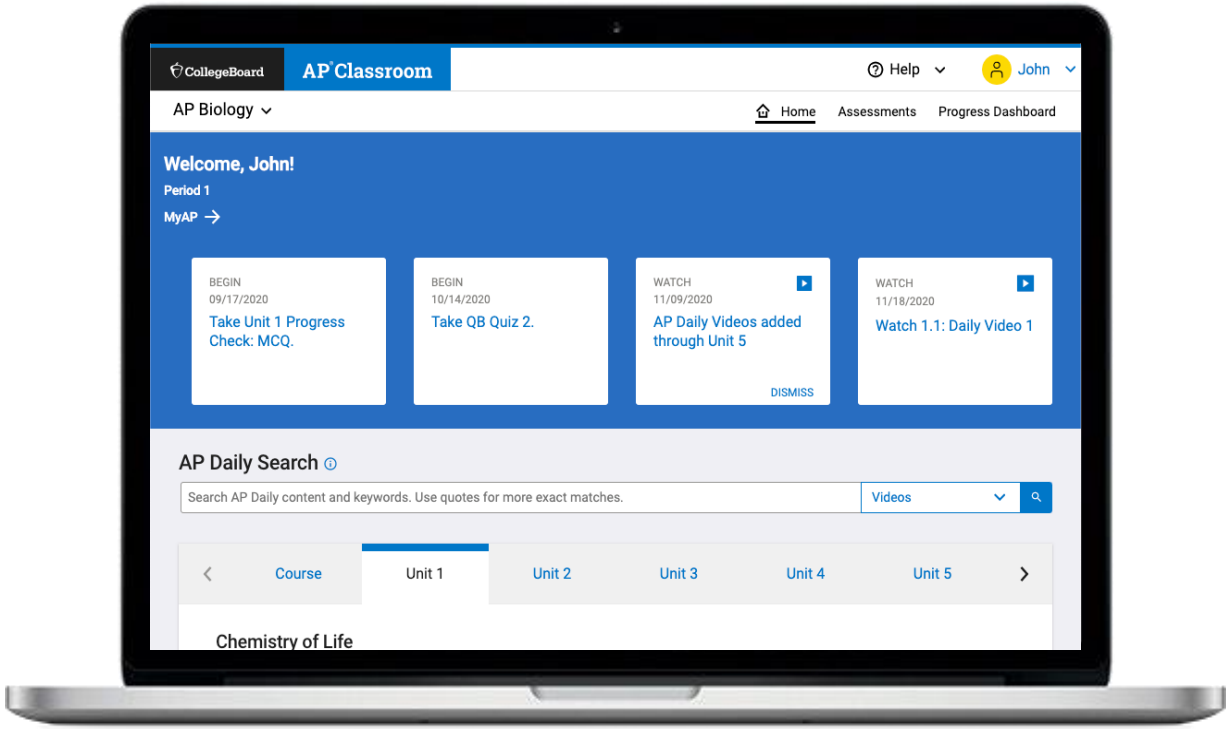
- IST 1 — 5.1 Meiosis
- IST 3 — 5.2 Meiosis and Genetic Diversity
- EVO IST 6 5 — 5.3 Mendelian Genetics
- IST 5 — 5.4 Non-Mendelian Genetics
- SYI 1 — 5.5 Environmental Effects on Phenotype
- SYI 6 — 5.6 Chromosomal Inheritance

Personal Progress Check 5

Multiple-Choice: ~25 questions
Free-Response: 2 questions
- Interpreting and Evaluating Experimental Results with Graphing
- Conceptual Analysis

AP Daily Videos

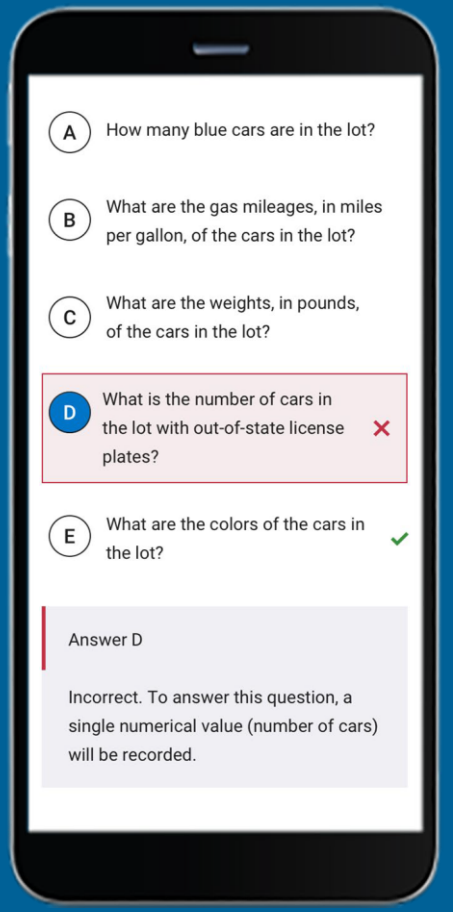
- Short learning videos on every topic in every unit for targeted support to help students build knowledge and skills
- Roughly 8-10 minutes in length
- Up to 3 videos for every topic and skill pairing within a given unit
- Recorded by expert AP teachers
- Accessible anytime, anywhere, so students can get answers to questions the moment they have them



Topic Questions

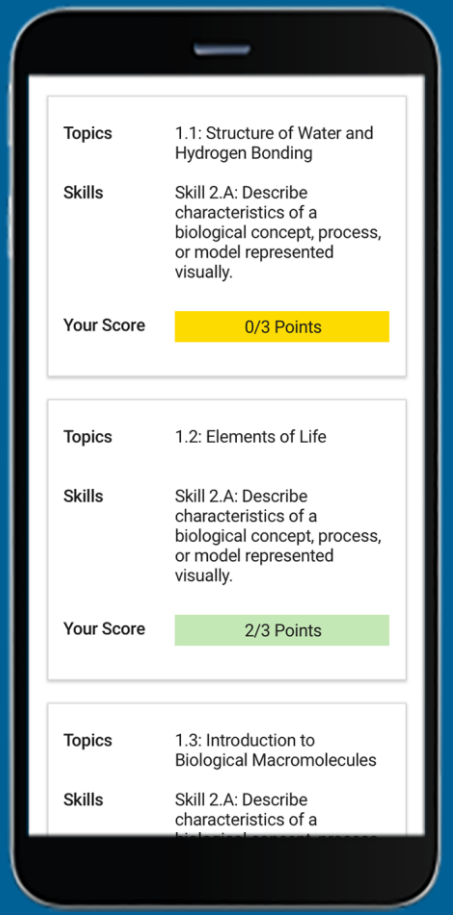
(Low-stakes practice)

- Topic questions provide students with practice applying the content and skills for each topic within a unit.
- Topic questions give teachers and students just-in-time feedback and insights into student misunderstandings.
- Students can complete these quick checks for understanding from their cell phone, a tablet, or computer.
- Responses give students and their teachers insights into how they're progressing in the course.



Personal Progress Checks
(Low-stakes practice)

- Real-time feedback on the topics and skills in each unit as the teacher unlocks progress checks
- Formative assessments of college-level knowledge and skills designed to:
  - gauge student progress over time
  - highlight areas of strength
  - identify areas students need to work on or get support for
- Personal Progress Checks are assigned at the end of each unit, after students have learned the unit's topics and skills



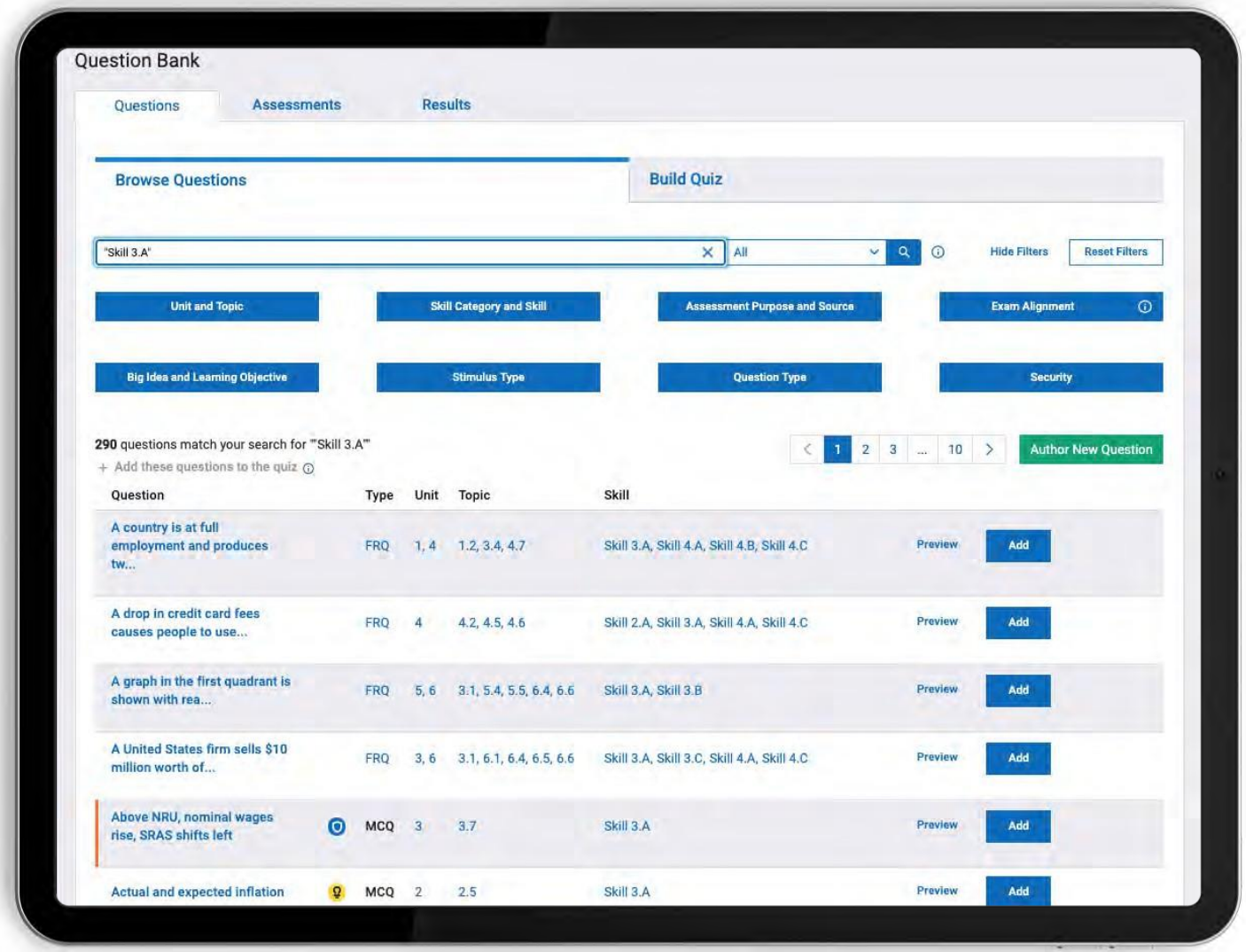
Question Bank: Targeted and customizable practice

How to Use

- **Practice Exams** are ready-made for online or paper assignment as the exam approaches.
- Thousands of **real AP questions** are easily searched by unit, topic and skill to create targeted, custom practice.

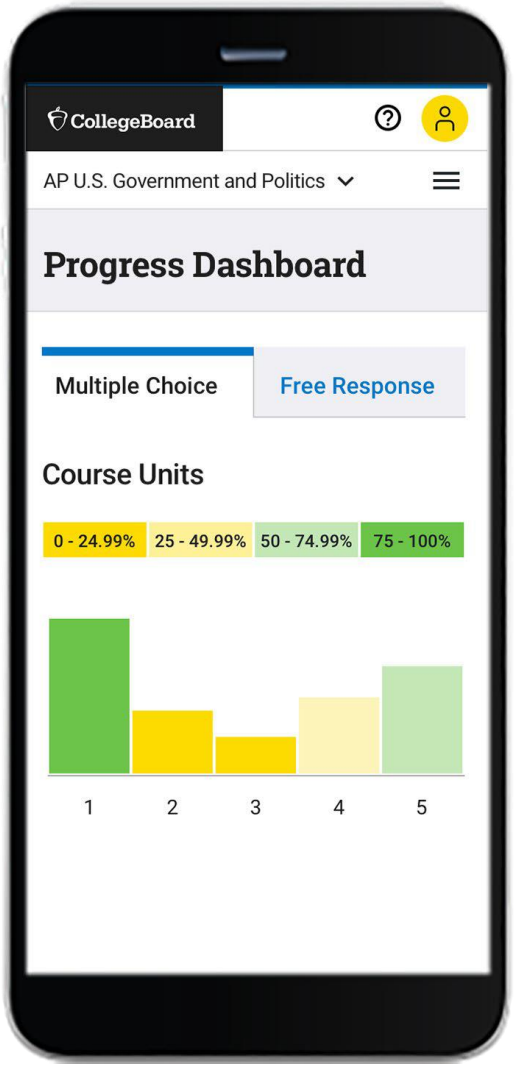
Keep in Mind

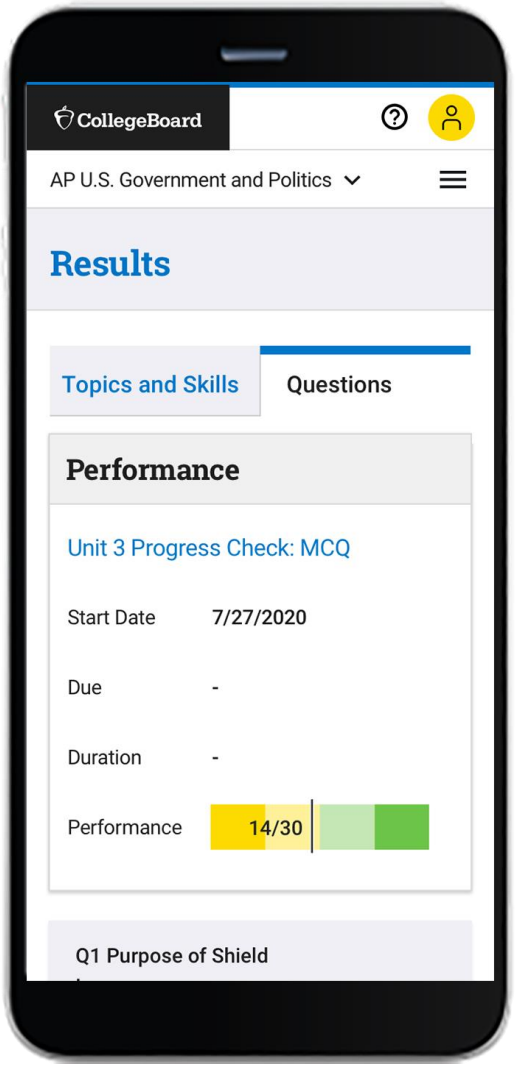
- Teachers create custom practice in-class or as homework assignments.
- Students only see questions assigned by their teacher.

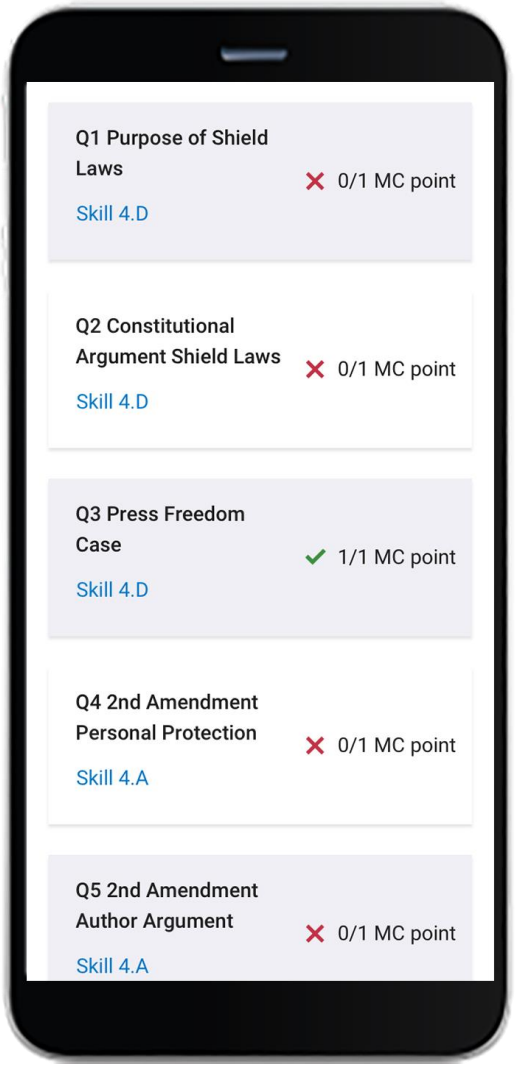


Student Progress Dashboard

- Enables students to view their progress unit by unit
- Allows students to celebrate successes and focus on areas of growth

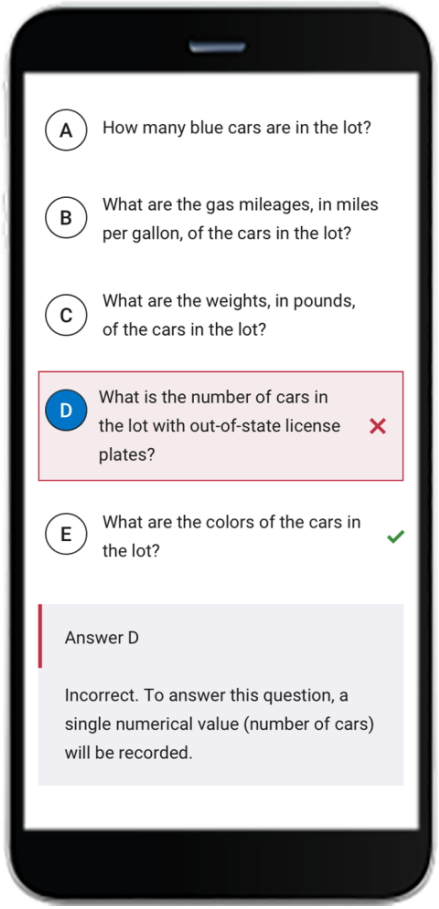




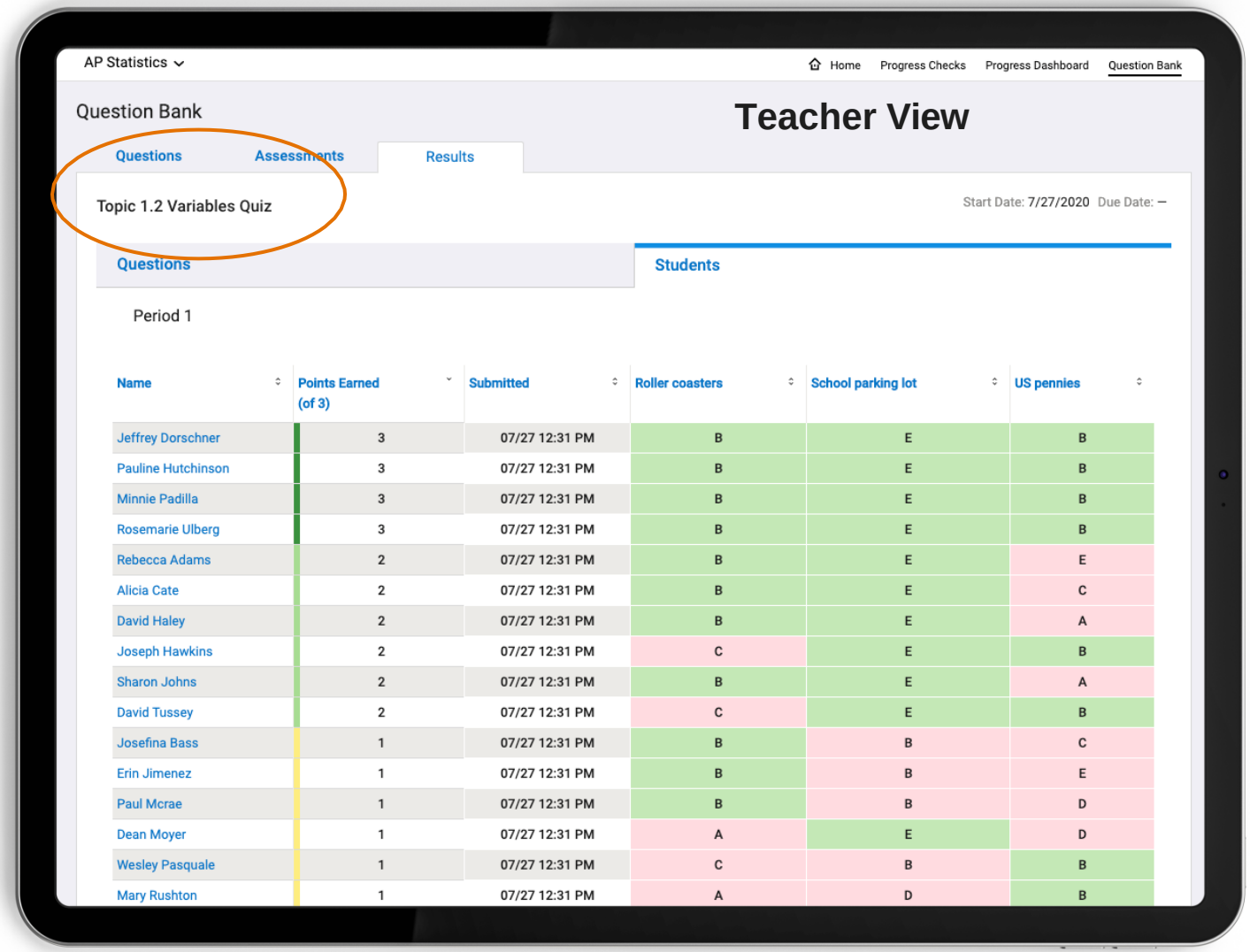


Topic Feedback: Common misunderstandings explained

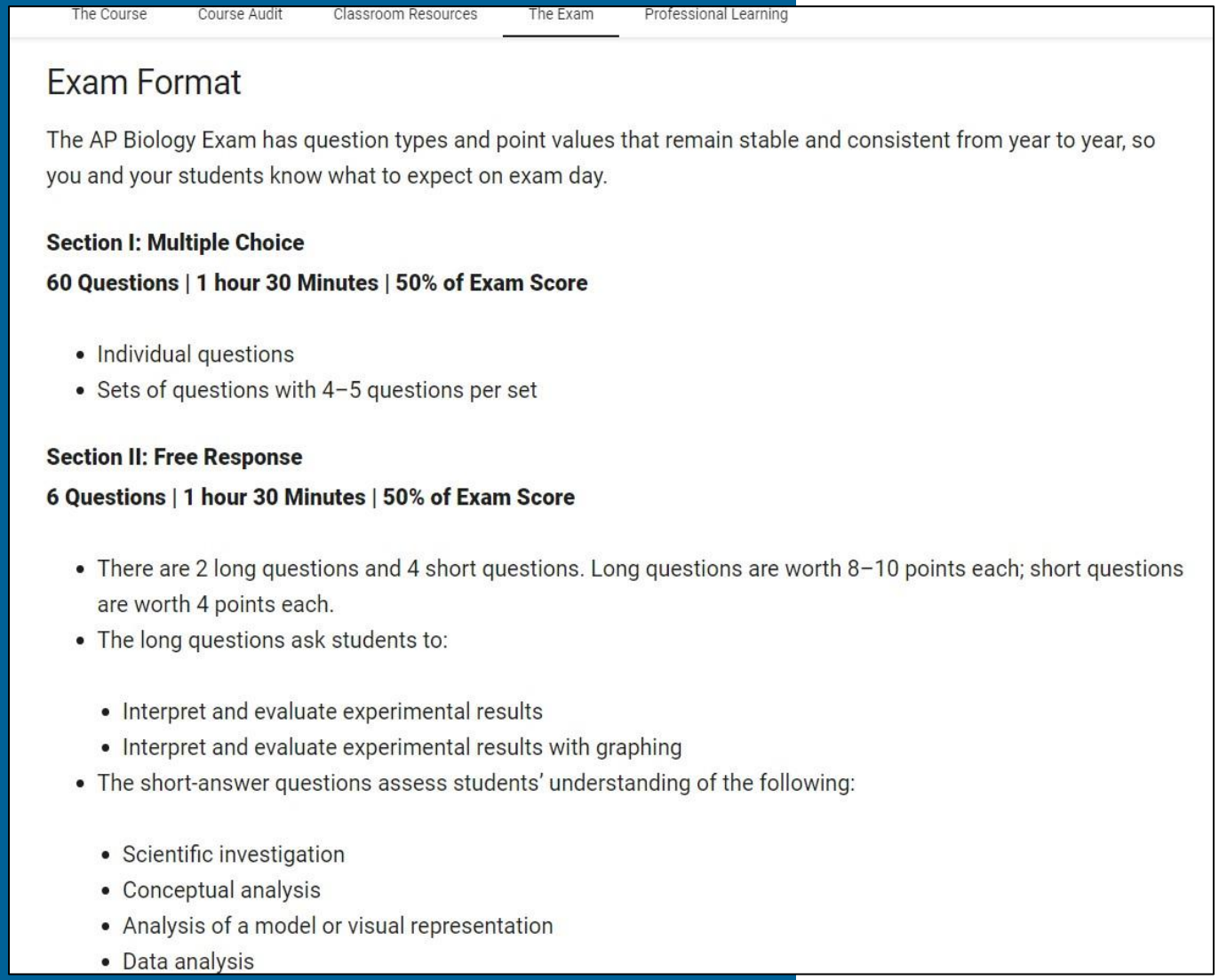
Student View



Teacher View



Name	Points Earned (of 3)	Submitted	Roller coasters	School parking lot	US pennies
Jeffrey Dorschner	3	07/27 12:31 PM	B	E	B
Pauline Hutchinson	3	07/27 12:31 PM	B	E	B
Minnie Padilla	3	07/27 12:31 PM	B	E	B
Rosemarie Ulberg	3	07/27 12:31 PM	B	E	B
Rebecca Adams	2	07/27 12:31 PM	B	E	E
Alicia Cate	2	07/27 12:31 PM	B	E	C
David Haley	2	07/27 12:31 PM	B	E	A
Joseph Hawkins	2	07/27 12:31 PM	C	E	B
Sharon Johns	2	07/27 12:31 PM	B	E	A
David Tussey	2	07/27 12:31 PM	C	E	B
Josefina Bass	1	07/27 12:31 PM	B	B	C
Erin Jimenez	1	07/27 12:31 PM	B	B	E
Paul Mcrae	1	07/27 12:31 PM	B	B	D
Dean Moyer	1	07/27 12:31 PM	A	E	D
Wesley Pasquale	1	07/27 12:31 PM	C	B	B
Mary Rushton	1	07/27 12:31 PM	A	D	B



The Course | Course Audit | Classroom Resources | The Exam | Professional Learning

Exam Format

The AP Biology Exam has question types and point values that remain stable and consistent from year to year, so you and your students know what to expect on exam day.

Section I: Multiple Choice

60 Questions | 1 hour 30 Minutes | 50% of Exam Score

- Individual questions
- Sets of questions with 4–5 questions per set

Section II: Free Response

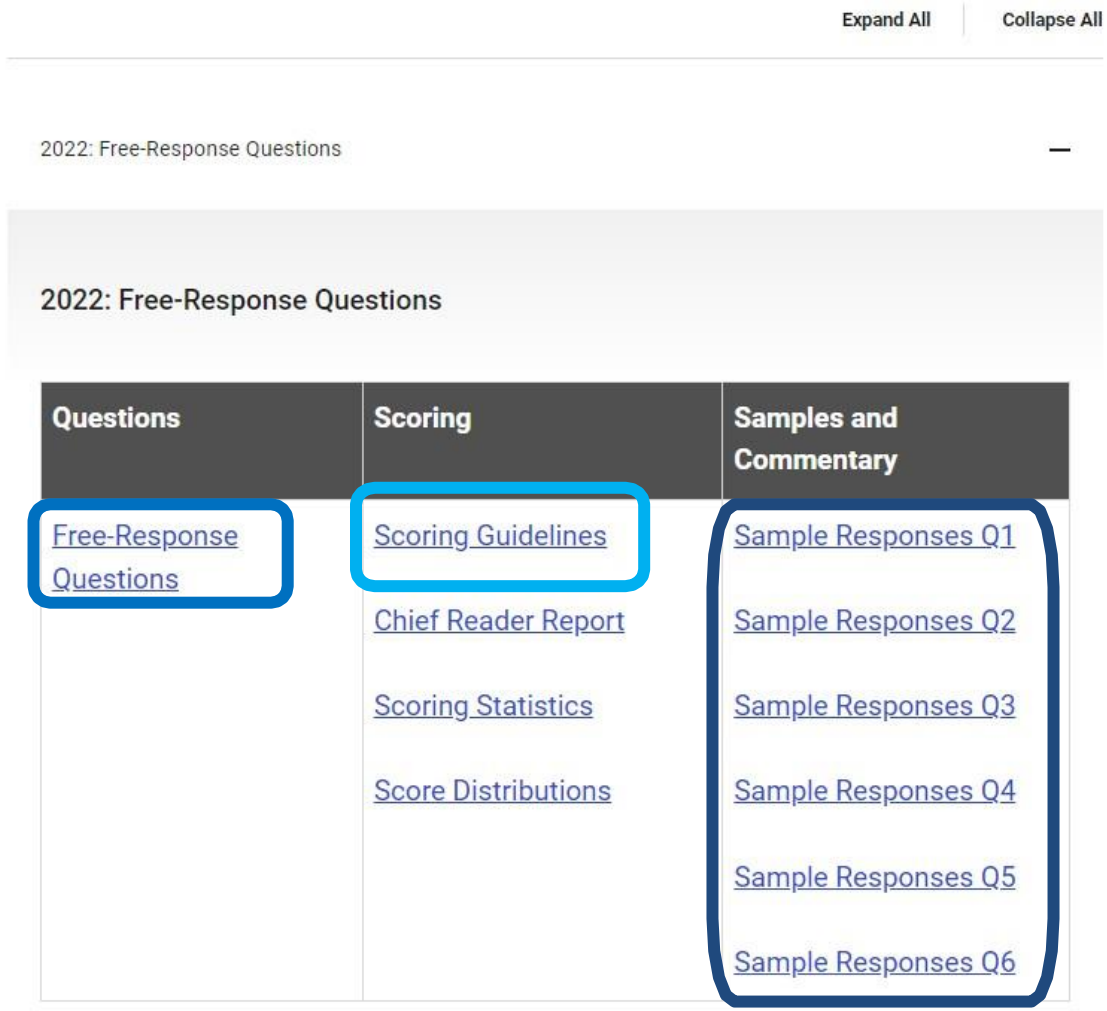
6 Questions | 1 hour 30 Minutes | 50% of Exam Score

- There are 2 long questions and 4 short questions. Long questions are worth 8–10 points each; short questions are worth 4 points each.
- The long questions ask students to:
  - Interpret and evaluate experimental results
  - Interpret and evaluate experimental results with graphing
- The short-answer questions assess students' understanding of the following:
  - Scientific investigation
  - Conceptual analysis
  - Analysis of a model or visual representation
  - Data analysis

Most AP Exams are divided into 2 Sections.

- Section I: Multiple Choice
- Section II: Free Response

AP Biology Past Exam Questions



Each year, the Operational AP Free-Response Exam Questions are released several days after the AP exam. You can use these with students as practice items!

In July/August following the AP exam, **Scoring Guidelines** are released showing how each Free-Response question was scored by AP Readers

In July/August following the AP exam, **Scoring Guidelines** are released showing how each Free-Response question was scored by AP Readers

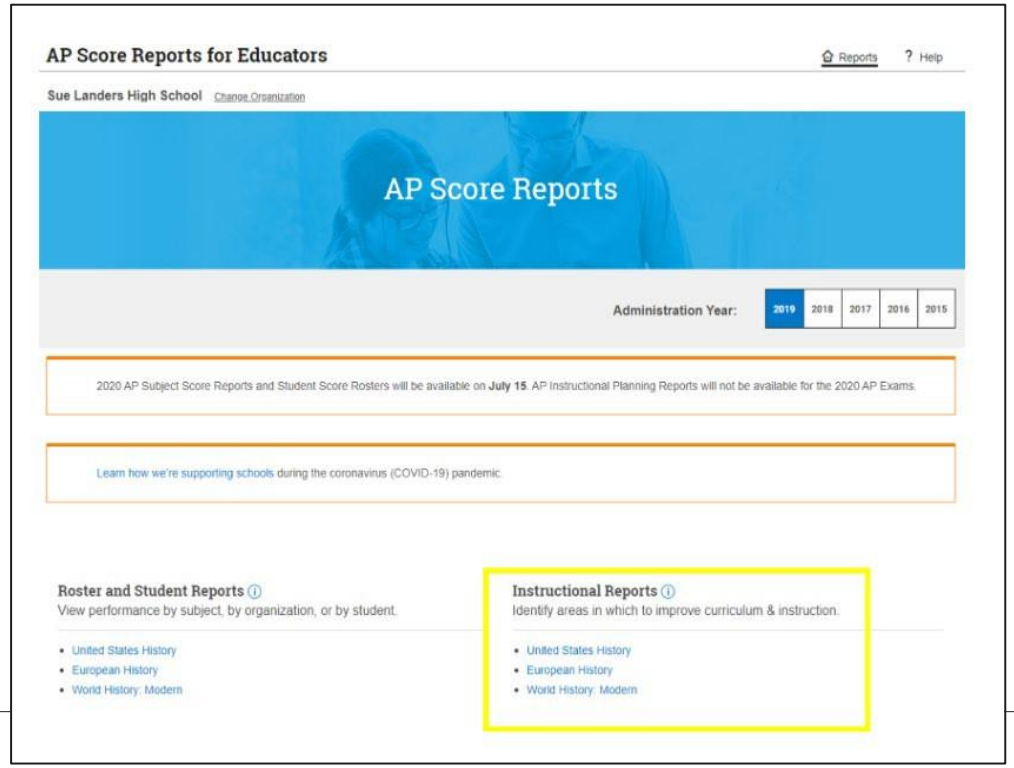
AP Instructional Planning Reports

Instructional Planning Report

How you can use this report:

- To identify skill gaps in your group of students.
- To identify differences in performance between the 2 sections of the exam.
- To gain an understanding of your students' performance relative to state and global peers.
- As a professional development tool to start a discussion about instructional planning with your teachers, AP coordinators, and other school and district staff.

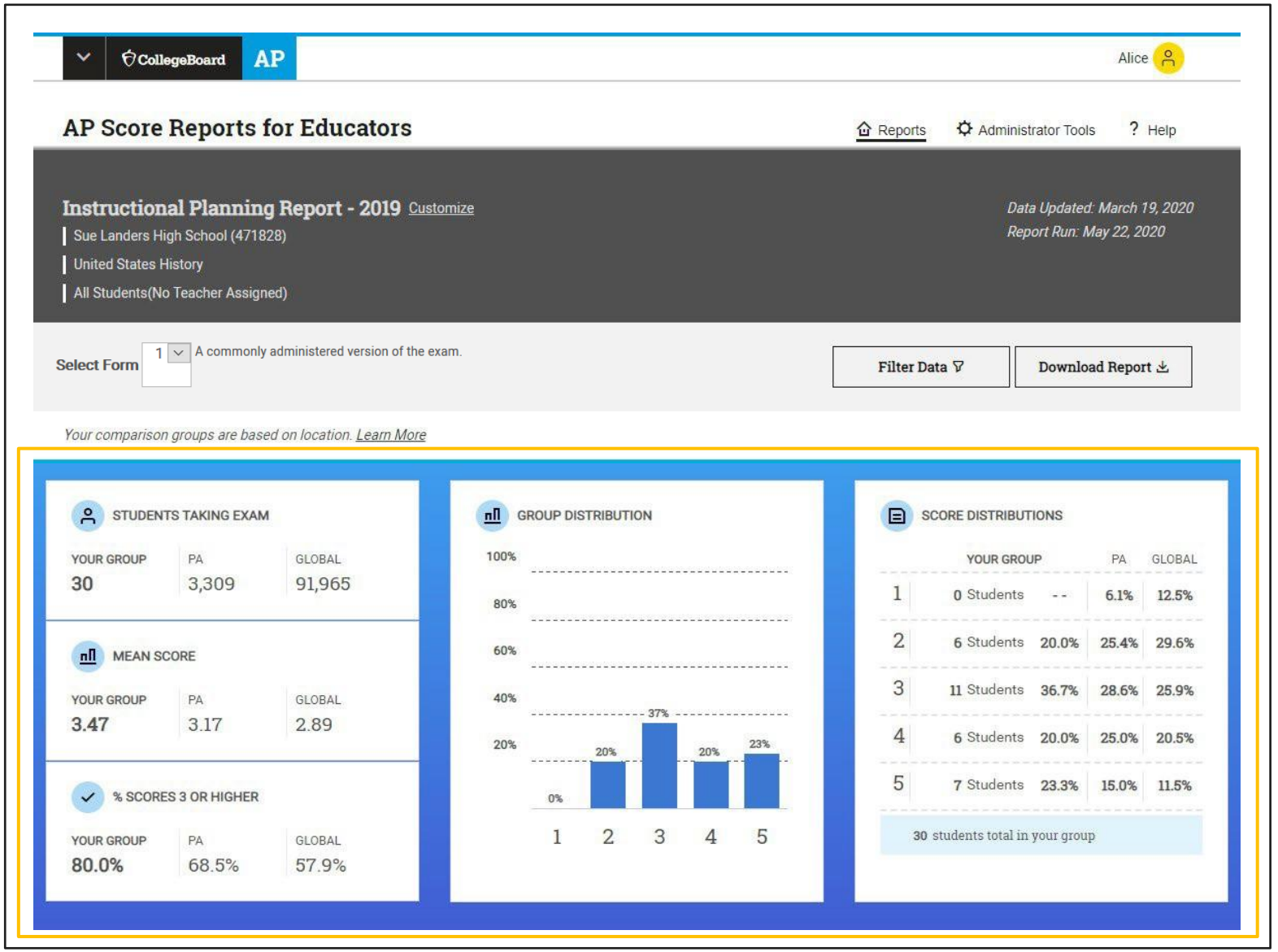
A subject-specific report that compares the performance of your students against that of their peers, helping you target areas for increased attention and focus in the curriculum



Summary and Score Distributions

This part of the report displays your students' performance and score distribution on the 1–5 score scale compared to their state and global peers for the version of the exam they took.

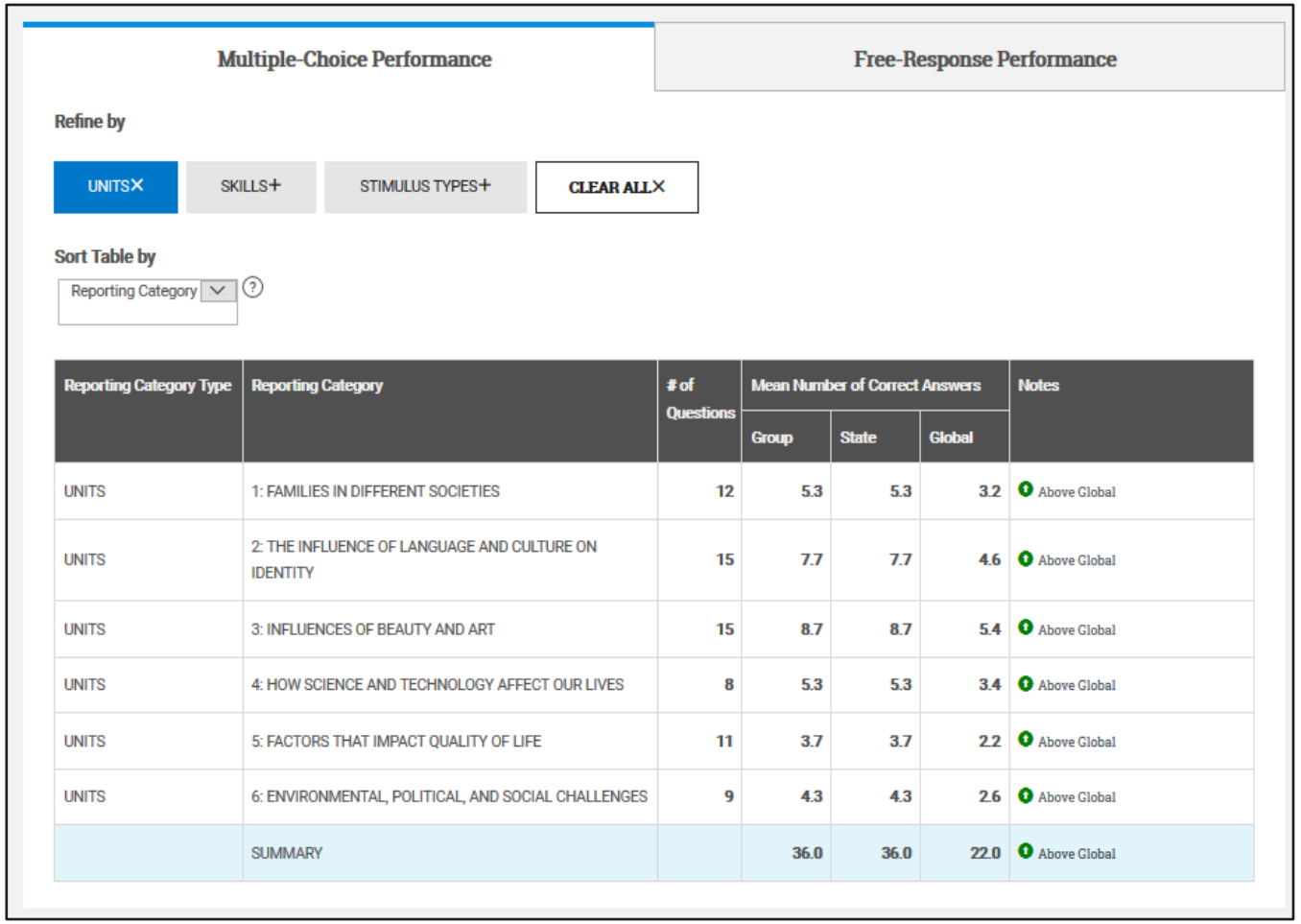
It also includes key metrics such as the mean scores and % of students who scored a 3 or higher.



Detailed Performance Breakdown – Multiple Choice

This part of the report provides detailed performance data on each portion of the exam and/or course that makes up the overall score for the multiple-choice section.

- Identify areas where your group exceeded the state and global means to help highlight your strengths.
- Find areas for high impact growth by looking at relative difference between your group and peer means.
- Drill down into subsets of students using section(s) and filters such as score and grade level. For example, select a score of 2 to see a profile of all students who scored a 2 on the exam. Compare this to a report filtered to only show students who scored a 3 or higher to identify areas for improvement.
- Filters will apply to the data for your group of students as well as any aggregate peer data at the state and global levels in your report.



Multiple-Choice Performance | Free-Response Performance

Refine by

UNITS× SKILLS+ STIMULUS TYPES+ CLEAR ALL×

Sort Table by

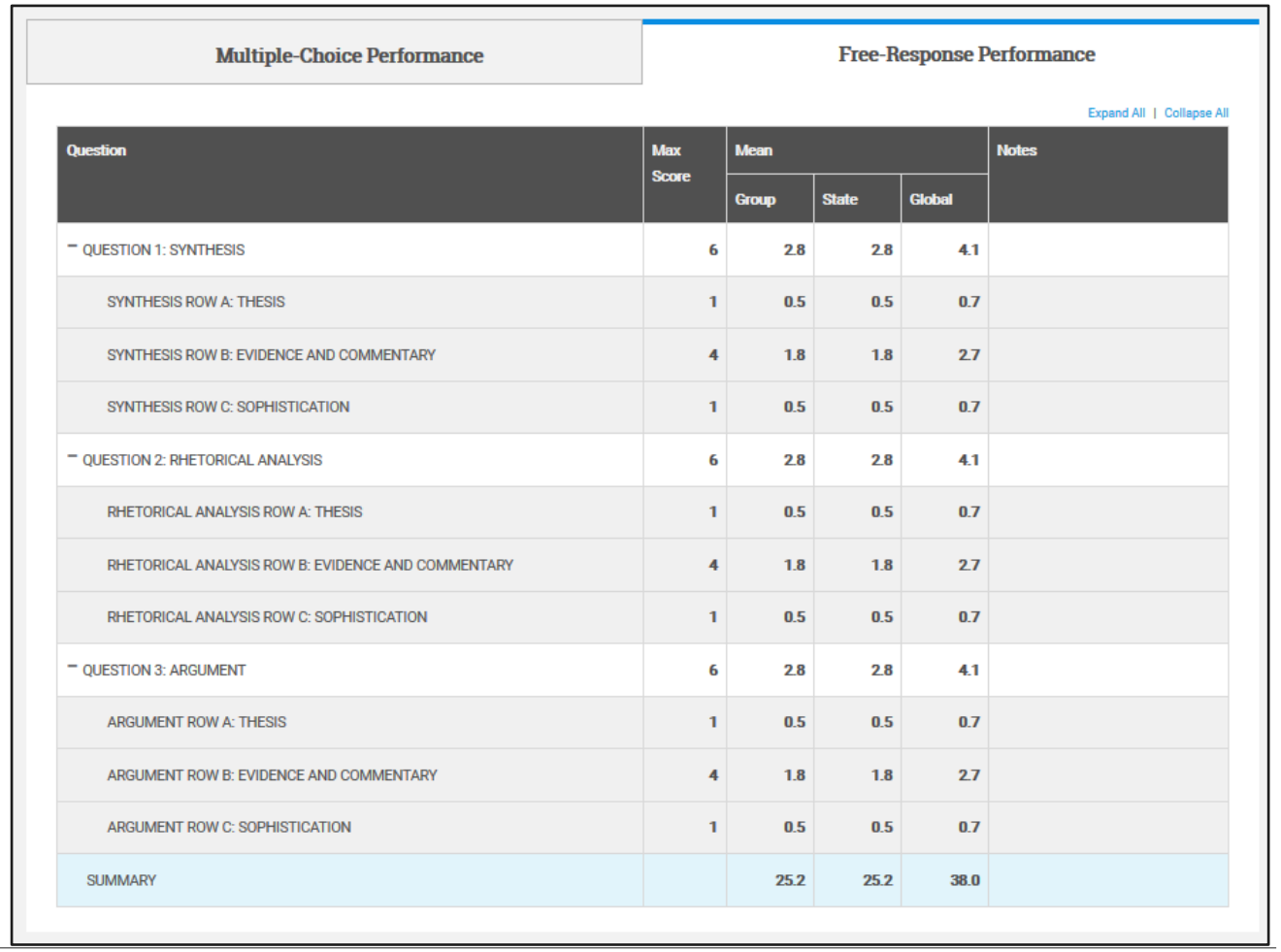
Reporting Category

Reporting Category Type	Reporting Category	# of Questions	Mean Number of Correct Answers			Notes
			Group	State	Global	
UNITS	1: FAMILIES IN DIFFERENT SOCIETIES	12	5.3	5.3	3.2	Above Global
UNITS	2: THE INFLUENCE OF LANGUAGE AND CULTURE ON IDENTITY	15	7.7	7.7	4.6	Above Global
UNITS	3: INFLUENCES OF BEAUTY AND ART	15	8.7	8.7	5.4	Above Global
UNITS	4: HOW SCIENCE AND TECHNOLOGY AFFECT OUR LIVES	8	5.3	5.3	3.4	Above Global
UNITS	5: FACTORS THAT IMPACT QUALITY OF LIFE	11	3.7	3.7	2.2	Above Global
UNITS	6: ENVIRONMENTAL, POLITICAL, AND SOCIAL CHALLENGES	9	4.3	4.3	2.6	Above Global
	SUMMARY		36.0	36.0	22.0	Above Global

Detailed Performance Breakdown – Free Response

This part of the report provides detailed performance data on the free-response section.

- You will see the maximum possible raw (i.e. unweighted) score, your students' group means, the state means, and the global means for each question.
- Additional subject specific information is included such as science practice mappings for individual questions on the science exams, and student essay choice selections for the history exams.
- Courses with performance tasks or a portfolio component provide performance details across content areas, tasks, and end-of-course exams where applicable. This includes AP Seminar, AP Research, AP Computer Science Principles, and the three AP Art and Design courses.



Multiple-Choice Performance | Free-Response Performance

Expand All | Collapse All

Question	Max Score	Mean			Notes
		Group	State	Global	
− QUESTION 1: SYNTHESIS	6	2.8	2.8	4.1	
SYNTHESIS ROW A: THESIS	1	0.5	0.5	0.7	
SYNTHESIS ROW B: EVIDENCE AND COMMENTARY	4	1.8	1.8	2.7	
SYNTHESIS ROW C: SOPHISTICATION	1	0.5	0.5	0.7	
− QUESTION 2: RHETORICAL ANALYSIS	6	2.8	2.8	4.1	
RHETORICAL ANALYSIS ROW A: THESIS	1	0.5	0.5	0.7	
RHETORICAL ANALYSIS ROW B: EVIDENCE AND COMMENTARY	4	1.8	1.8	2.7	
RHETORICAL ANALYSIS ROW C: SOPHISTICATION	1	0.5	0.5	0.7	
− QUESTION 3: ARGUMENT	6	2.8	2.8	4.1	
ARGUMENT ROW A: THESIS	1	0.5	0.5	0.7	
ARGUMENT ROW B: EVIDENCE AND COMMENTARY	4	1.8	1.8	2.7	
ARGUMENT ROW C: SOPHISTICATION	1	0.5	0.5	0.7	
SUMMARY		25.2	25.2	38.0	

Filter by Score

Multiple-Choice Performance | **Free-Response Performance**

Refine by

Reporting Category Type

Reporting Category Type	Reporting Category	# of Questions	Mean Number of Correct Answers			Notes
			Group	TX	Global	
UNITS	1: LIMITS AND CONTINUITY	5	2.0	2.1	2.2	
UNITS	2: DIFFERENTIATION: DEFINITION AND FUNDAMENTAL PROPERTIES	5	1.6	1.7	1.6	
UNITS	3: DIFFERENTIATION: COMPOSITE, IMPLICIT, AND INVERSE FUNCTIONS	5	1.9	2.0	2.0	
UNITS	4: CONTEXTUAL APPLICATIONS OF DIFFERENTIATION	6	2.3	2.2	2.2	↑ Above TX and Global ✓
UNITS	5: ANALYTICAL APPLICATIONS OF DIFFERENTIATION	8	2.5	2.5	2.5	
UNITS	6: INTEGRATION AND ACCUMULATION OF CHANGE	8	2.9	2.9	2.8	↑ Above Global ✓
UNITS	7: DIFFERENTIAL EQUATIONS	3	⊘	⊘	⊘	⊘ <5 questions in content area
UNITS	8: APPLICATIONS OF INTEGRATION	5	1.7	2.0	2.0	
BIG IDEAS	1: CHANGE	14	5.4	5.5	5.5	
BIG IDEAS	2: LIMITS	7	2.8	3.1	3.1	
BIG IDEAS	3: ANALYSIS OF FUNCTIONS	24	8.1	7.9	7.9	↑ Above TX and Global ✓

Filter by Score

Multiple-Choice Performance

Free-Response Performance

Question	Max Score	Mean			Notes
		Group	TX	Global	
QUESTION 1: MODELING - RATE OF CHANGE, RIEMANN SUM, AVERAGE VALUE - AB & BC	9	2.0	2.8	2.9	
QUESTION 2: PARTICLE MOTION - ACCELERATION, POSITION, DISTANCE	9	1.1	1.5	1.5	
QUESTION 3: MODELING WITH DIFFERENTIAL EQUATION - SEPARATION OF VARIABLES - AB & BC	9	1.6	1.4	1.5	Above TX and Global
QUESTION 4: GRAPHICAL ANALYSIS WITH FTC - AB & BC	9	1.4	1.3	1.4	Above TX
QUESTION 5: IMPLICIT DIFFERENTIATION WITH RELATED RATES	9	1.0	0.7	0.9	Above TX and Global
QUESTION 6: AREA-VOLUME	9	3.0	1.8	1.9	Above TX and Global
SUMMARY		10.1	9.6	10.1	Above TX

Analyze the Data

- Identify areas where your group exceeded the district, state, and global means to help highlight your strengths.

- Identify areas where there are opportunities to improve when compared to district, states, and global groups.

  - When and how are these Big Ideas and Skills addressed in your syllabus/planning?
  - How does that compare to the recommended organization in the Course and Exam Description (CED)
  - What AP Classroom resources can you use to support teaching and learning of these Skills and Big Ideas?

Desired Student Outcomes

What we want for our students and their learning

We all want students to find success; however, that might look different from student to student.

- Realistic Goals for Desired Student Outcomes:
  - Move your 1's to 2's → Research shows students who make a 2 on an AP exam have better post-secondary outcomes than those students who don't.
  - Move your 2's to 3's → There is something that is preventing them from getting over the hump. What is that? Identify and target your efforts there.
  - Compare your 2's to 3's → What skills are your 2's lacking that your 3's have? Which big ideas are the 2's not quite getting? How can you figure this out?

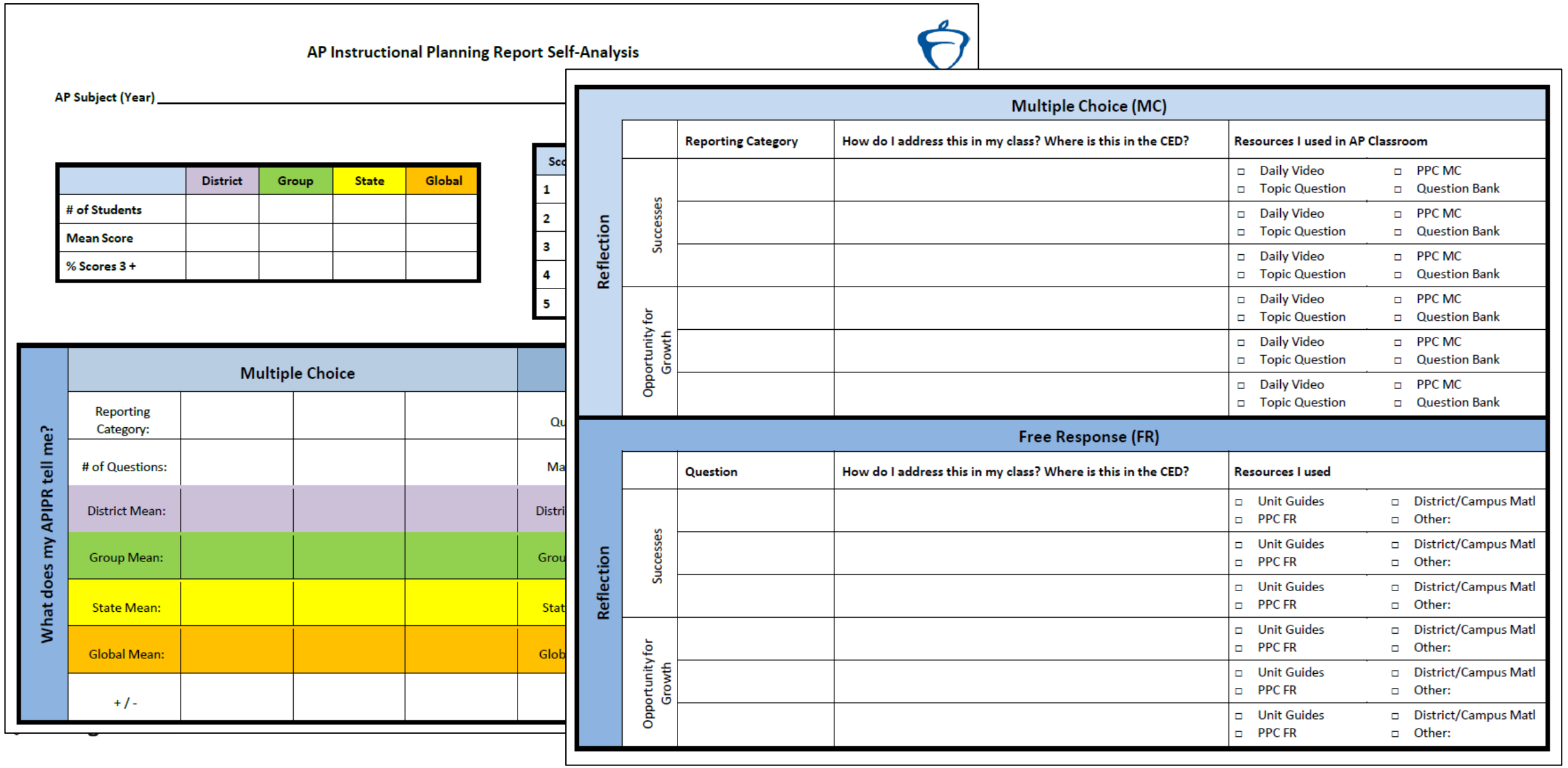
Next

- Drill down into subsets of students using section(s) and filters such as score and grade level. For example, select a score of 2 to see a profile of all students who scored a 2 on the exam. Compare this to a report filtered to only show students who scored a 3 or higher to identify areas for improvement.

- Share your findings with other teachers who teach the same subject. Is there an opportunity to share best practices and discuss how challenges are addressed in the classroom?

- Prioritize usage of Topic Questions, AP Daily Videos, and Progress Checks when teaching content and skills where students might have struggled in the past.

AP IPR Self-Analysis



AP Instructional Planning Report Self-Analysis

AP Subject (Year) _____

	District	Group	State	Global
# of Students				
Mean Score				
% Scores 3 +				

Sc
1
2
3
4
5

What does my APIPR tell me?

Multiple Choice				Qu
Reporting Category:				
# of Questions:				Ma
District Mean:				Distri
Group Mean:				Grou
State Mean:				Stat
Global Mean:				Glob
+ / -				

Multiple Choice (MC)

Reflection		Reporting Category	How do I address this in my class? Where is this in the CED?	Resources I used in AP Classroom
Successes				☐ Daily Video ☐ Topic Question ☐ PPC MC ☐ Question Bank
				☐ Daily Video ☐ Topic Question ☐ PPC MC ☐ Question Bank
				☐ Daily Video ☐ Topic Question ☐ PPC MC ☐ Question Bank
Opportunity for Growth				☐ Daily Video ☐ Topic Question ☐ PPC MC ☐ Question Bank
				☐ Daily Video ☐ Topic Question ☐ PPC MC ☐ Question Bank
				☐ Daily Video ☐ Topic Question ☐ PPC MC ☐ Question Bank

Free Response (FR)

Reflection		Question	How do I address this in my class? Where is this in the CED?	Resources I used
Successes				☐ Unit Guides ☐ PPC FR ☐ District/Campus Matl ☐ Other:
				☐ Unit Guides ☐ PPC FR ☐ District/Campus Matl ☐ Other:
				☐ Unit Guides ☐ PPC FR ☐ District/Campus Matl ☐ Other:
Opportunity for Growth				☐ Unit Guides ☐ PPC FR ☐ District/Campus Matl ☐ Other:
				☐ Unit Guides ☐ PPC FR ☐ District/Campus Matl ☐ Other:
				☐ Unit Guides ☐ PPC FR ☐ District/Campus Matl ☐ Other:

To the CED!

Course at a Glance

Plan

The Course at a Glance provides a useful visual organization of the AP Calculus AB and AP Calculus BC curricular components, including:

- Sequence of units, along with approximate weighting and suggested pacing. Please note, pacing is based on 45-minute class periods, meeting five days each week for a full academic year.
- Progression of topics within each unit.
- Spiraling of the big ideas and mathematical practices across units.

Teach

MATHEMATICAL PRACTICES
Mathematical practices spiral throughout the course.

1 Implementing Mathematical Processes
2 Connecting Representations
3 Justification
4 Communication and Notation

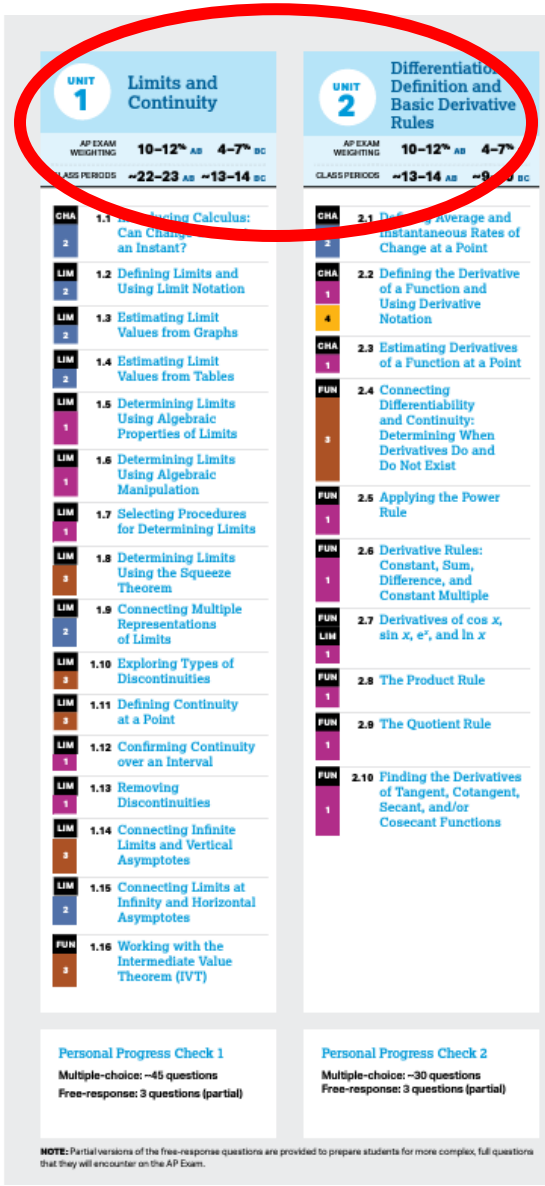
BIG IDEAS
Big ideas spiral across topics and units.

CHA Change
FUN Analysis of Functions
LIM Limits

BC ONLY
The purple shading represents BC only content.

Assess

Assign the Personal Progress Checks—either as homework or in class—for each unit. Each Personal Progress Check contains formative multiple-choice and free-response questions. The feedback from the Personal Progress Checks shows students the areas where they need to focus.



UNIT 1 Limits and Continuity

AP EXAM WEIGHTING 10–12% AB 4–7% BC
CLASS PERIODS ~22–23 AB ~13–14 BC

- 1.1 Introducing Calculus: Can Change Occur at an Instant?
- 1.2 Defining Limits and Using Limit Notation
- 1.3 Estimating Limit Values from Graphs
- 1.4 Estimating Limit Values from Tables
- 1.5 Determining Limits Using Algebraic Properties of Limits
- 1.6 Determining Limits Using Algebraic Manipulation
- 1.7 Selecting Procedures for Determining Limits
- 1.8 Determining Limits Using the Squeeze Theorem
- 1.9 Connecting Multiple Representations of Limits
- 1.10 Exploring Types of Discontinuities
- 1.11 Defining Continuity at a Point
- 1.12 Confirming Continuity over an Interval
- 1.13 Removing Discontinuities
- 1.14 Connecting Infinite Limits and Vertical Asymptotes
- 1.15 Connecting Limits at Infinity and Horizontal Asymptotes
- 1.16 Working with the Intermediate Value Theorem (IVT)

Personal Progress Check 1
Multiple-choice: ~45 questions
Free-response: 3 questions (partial)

UNIT 2 Differentiation: Definition and Basic Derivative Rules

AP EXAM WEIGHTING 10–12% AB 4–7% BC
CLASS PERIODS ~13–14 AB ~9–10 BC

- 2.1 Defining Average and Instantaneous Rates of Change at a Point
- 2.2 Defining the Derivative of a Function and Using Derivative Notation
- 2.3 Estimating Derivatives of a Function at a Point
- 2.4 Connecting Differentiability and Continuity: Determining When Derivatives Do and Do Not Exist
- 2.5 Applying the Power Rule
- 2.6 Derivative Rules: Constant, Sum, Difference, and Constant Multiple
- 2.7 Derivatives of cos x, sin x, e^x, and ln x
- 2.8 The Product Rule
- 2.9 The Quotient Rule
- 2.10 Finding the Derivatives of Tangent, Cotangent, Secant, and/or Cosecant Functions

Personal Progress Check 2
Multiple-choice: ~30 questions
Free-response: 3 questions (partial)

UNIT 3 Differentiation: Composite, Implicit, and Inverse Functions

AP EXAM WEIGHTING 9–13% AB 4–7% BC
CLASS PERIODS ~10–11 AB ~8–9 BC

- 3.1 The Chain Rule
- 3.2 Implicit Differentiation
- 3.3 Differentiating Inverse Functions
- 3.4 Differentiating Inverse Trigonometric Functions
- 3.5 Selecting Procedures for Calculating Derivatives
- 3.6 Calculating Higher-Order Derivatives

Personal Progress Check 3
Multiple-choice: ~15 questions
Free-response: 3 questions (partial/full)

UNIT 4 Contextual Applications of Differentiation

AP EXAM WEIGHTING 10–15% AB 6–9% BC
CLASS PERIODS ~10–11 AB ~6–7 BC

- 4.1 Interpreting the Meaning of the Derivative in Context
- 4.2 Straight-Line Motion: Connecting Position, Velocity, and Acceleration
- 4.3 Rates of Change in Applied Contexts Other Than Motion
- 4.4 Introduction to Related Rates
- 4.5 Solving Related Rates Problems
- 4.6 Approximating Values of a Function Using Local Linearity and Linearization
- 4.7 Using L'Hospital's Rule for Determining Limits of Indeterminate Forms

Personal Progress Check 4
Multiple-choice: ~15 questions
Free-response: 3 questions

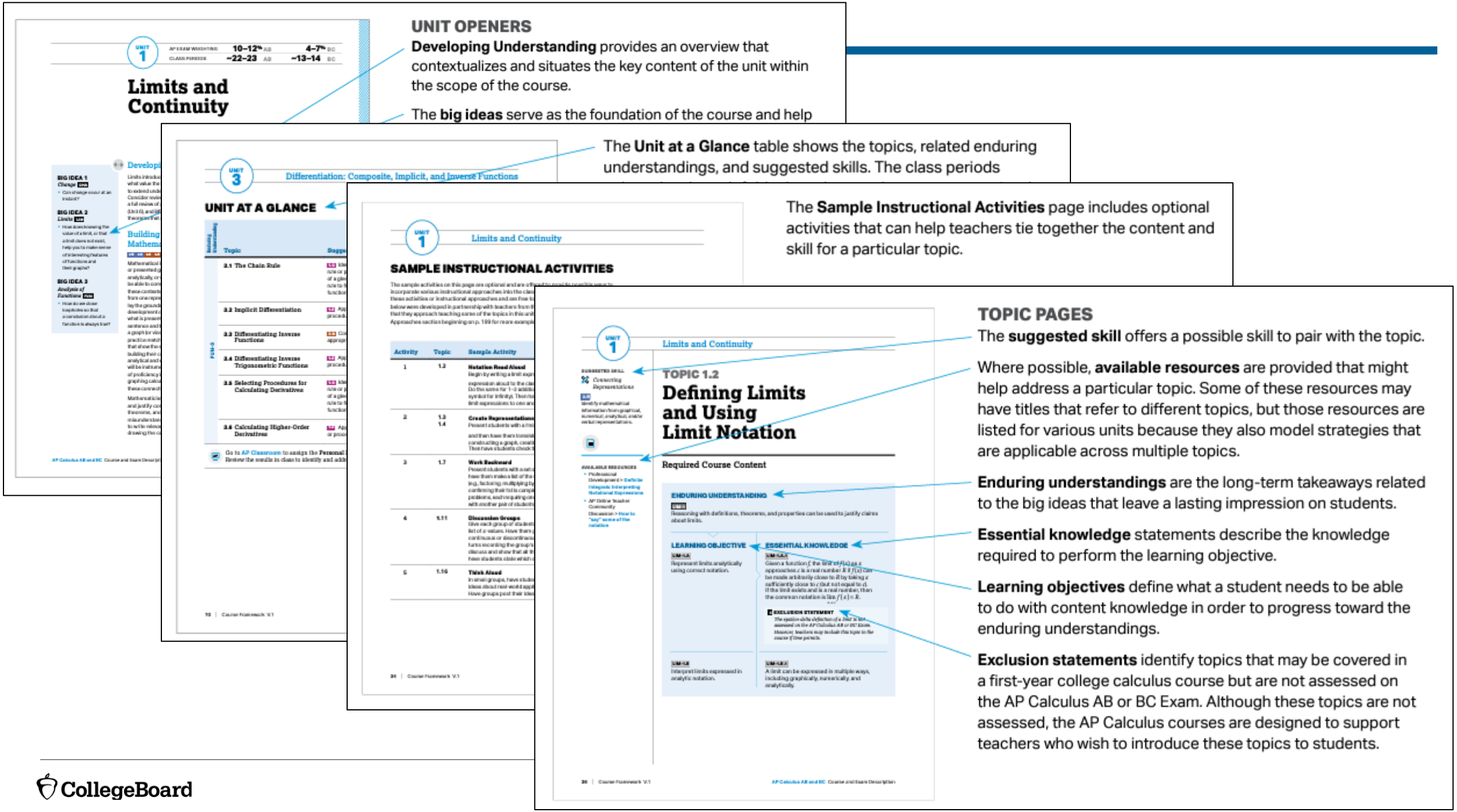
UNIT 5 Analytical Applications of Differentiation

AP EXAM WEIGHTING 15–18% AB 8–11% BC
CLASS PERIODS ~15–16 AB ~10–11 BC

- 5.1 Using the Mean Value Theorem
- 5.2 Extreme Value Theorem, Global Versus Local Extrema, and Critical Points
- 5.3 Determining Intervals on Which a Function Is Increasing or Decreasing
- 5.4 Using the First Derivative Test to Determine Relative (Local) Extrema
- 5.5 Using the Candidates Test to Determine Absolute (Global) Extrema
- 5.6 Determining Concavity of Functions over Their Domains
- 5.7 Using the Second Derivative Test to Determine Extrema
- 5.8 Sketching Graphs of Functions and Their Derivatives
- 5.9 Connecting a Function, Its First Derivative, and Its Second Derivative
- 5.10 Introduction to Optimization Problems
- 5.11 Solving Optimization Problems
- 5.12 Exploring Behaviors of Implicit Relations

Personal Progress Check 5
Multiple-choice: ~35 questions
Free-response: 3 questions

NOTE: Partial versions of the free-response questions are provided to prepare students for more complex, full questions that they will encounter on the AP Exam.


UNIT 1
Limits and Continuity
UNIT OPENERS
Developing Understanding provides an overview that contextualizes and situates the key content of the unit within the scope of the course.
The big ideas serve as the foundation of the course and help
UNIT 3
Differentiation: Composite, Implicit, and Inverse Functions
UNIT AT A GLANCE
The Unit at a Glance table shows the topics, related enduring understandings, and suggested skills. The class periods
UNIT 1
Limits and Continuity
SAMPLE INSTRUCTIONAL ACTIVITIES
The Sample Instructional Activities page includes optional activities that can help teachers tie together the content and skill for a particular topic.
UNIT 1
Limits and Continuity
TOPIC 1.2
Defining Limits and Using Limit Notation
Required Course Content
ENDURING UNDERSTANDING
LEARNING OBJECTIVE
ESSENTIAL KNOWLEDGE
TOPIC PAGES
The suggested skill offers a possible skill to pair with the topic.
Where possible, available resources are provided that might help address a particular topic. Some of these resources may have titles that refer to different topics, but those resources are listed for various units because they also model strategies that are applicable across multiple topics.
Enduring understandings are the long-term takeaways related to the big ideas that leave a lasting impression on students.
Essential knowledge statements describe the knowledge required to perform the learning objective.
Learning objectives define what a student needs to be able to do with content knowledge in order to progress toward the enduring understandings.
Exclusion statements identify topics that may be covered in a first-year college calculus course but are not assessed on the AP Calculus AB or BC Exam. Although these topics are not assessed, the AP Calculus courses are designed to support teachers who wish to introduce these topics to students.

AP Daily Videos

- Short learni
  unit for targ
  build knowl
- Roughly 8-1
- Up to 3 vide
  within a giv
- Recorded by
- Accessible
  can get ans
  have them

Topic Questions

(Low-stakes practice)

- Topic questi
  applying the
  unit.
- Topic questi
  time feedba
  misunderst
- Students ca
  understandi
  computer.
- Responses
  into how they

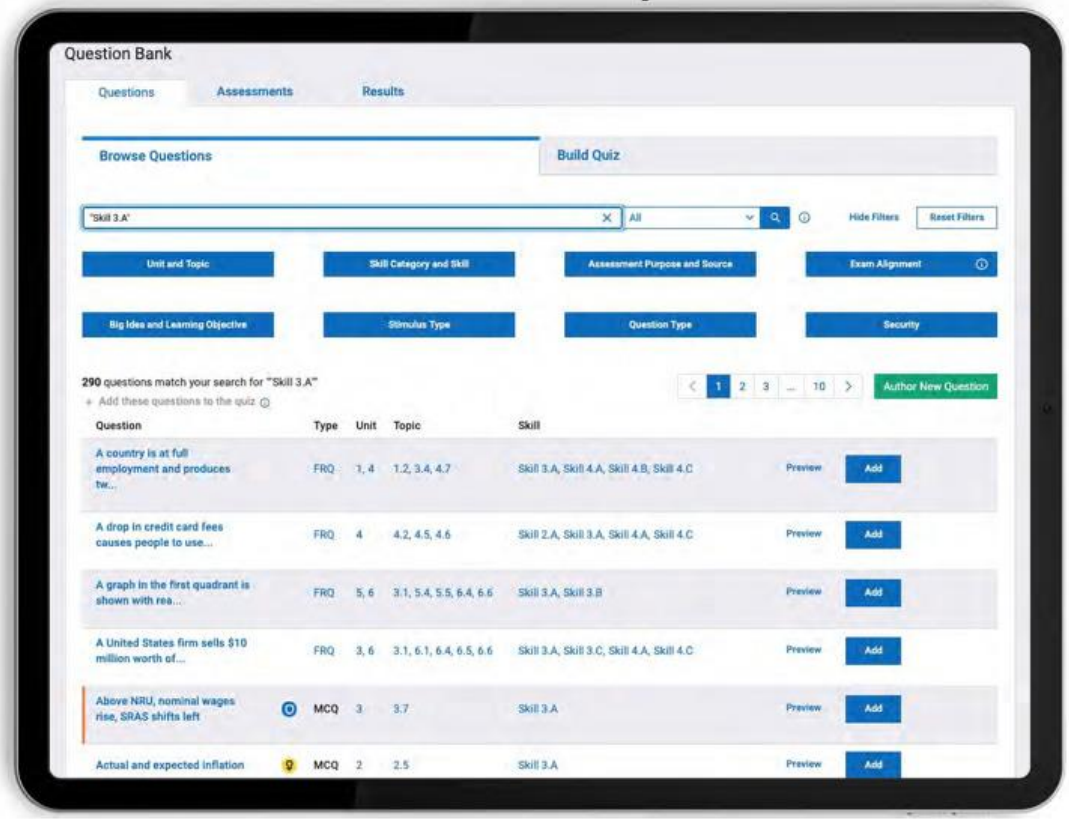
Question Bank: Targeted and customizable practice

How to Use

- **Practice Exams** are ready-made for online or paper assignment as the exam approaches.
- Thousands of **real AP questions** are easily searched by unit, topic and skill to create targeted, custom practice.

Keep in Mind

- Teachers create custom practice in-class or as homework assignments.
- Students only see questions assigned by their teacher.



AP Resources: Support Teaching and Learning

There's an AP resource for each stage of the instructional cycle.

Plan
- Unit Guides
- Professional Learning Videos

Teach
- AP Daily Videos
- Course-Specific Resources

Practice
- Topic Questions

Assess
- Progress Checks

Formative

Get and Give Feedback
- All Assignments Report
- Progress Check Report
- Content & Skills Performance Report

Using Student Data

Review and Prepare
- Question Bank
- Practice Exams
- AP Daily Review Videos

Summative

Thank You!

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