

SAT® Teacher Resources Webinar

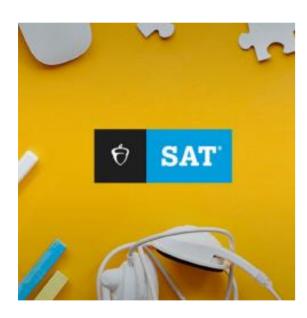
The Teacher Toolkit SAT® Suite Question Bank

November 9-13, 2020



Agenda

Here's what we'll cover today:



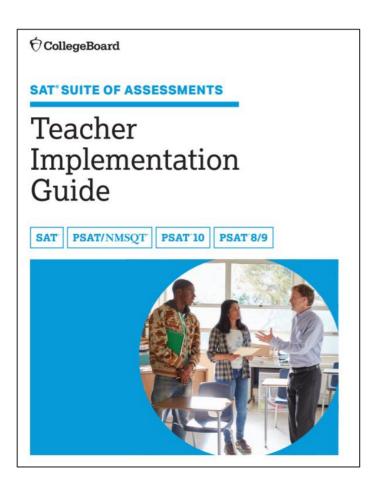
- Teacher Toolkit Contents
 - •ELA
 - Math
 - Science
 - Social Studies
- Illinois Priority Standards and SAT® Subscore Alignment
 - •ELA
 - Math
- SAT[®] Suite Question Bank

The SAT® Relates to Classroom Instruction



- Aligns to state standards
- Aligns to classroom instruction
- Contains no obscure vocabulary
- Uses rights-only scoring
- Focuses on the knowledge and skills most important for success after high school:
 - Defining words in context
 - Using evidence to support arguments
 - Using "Standard English Conventions" appropriately
 - Analyzing and utilizing data
 - Applying fundamental algebra concepts

Essential Prerequisites for College and Career Readiness



The College Board has concluded that students must be able to

- read, analyze, and use reasoning to comprehend challenging literary and informational texts, including texts about science and history/social studies topics, to demonstrate and expand their knowledge and understanding;
- revise and edit extended texts across a range of academic and careerrelated subjects for expression of ideas and show facility with a core set of grammar, usage, and punctuation conventions;
- show command of a focused but powerful set of knowledge, skills, and understandings in math and solve problems situated in science, social studies, and career-related contexts;
- make careful and deliberate use of evidence as they read and write;
- demonstrate skill in analyzing data, including data represented graphically in tables, graphs, charts, and the like, in reading, writing, and math contexts; and
- reveal an understanding of words in context and how word choice helps shape meaning and tone.

https://collegereadiness.collegeboard.org/pdf/redesigned-sat-k12-teacher-implementation-quide.pdf



The Teacher Toolkit

https://www.isbe.net/Pages/sat-psat.aspx



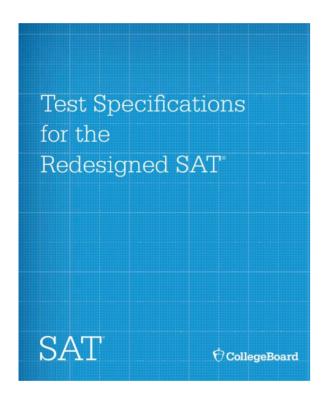


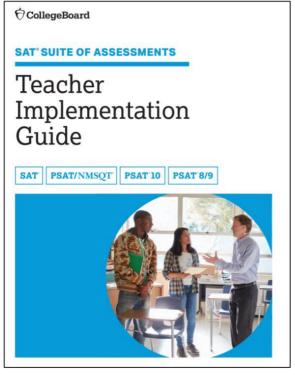




The Teacher Toolkit

https://www.isbe.net/Pages/sat-psat.aspx







Official SAT Practice Lesson Plans for Teachers by Teachers LESSON 1 (1 OF 5 FOR HEART OF ALGEBRA) Linear Equations, Linear Inequalities, and **Linear Functions in Context** Focus: Using algebra to analyze and solve problems in context, otherwise known as word problems Students will identify and implement the steps necessary to use algebra to analyze and solve problems in context. . define one or more variables that represent quantities in context, and write expressions, equations, inequalities, and/or functions that represent the relationships described in the context. solve equations and interpret their solutions in terms of the context recognize that different questions could be asked about the same context ☐ Review Chapter 16 of the SAT Study Guide for Students: especially the answers and explanations for Examples 1-4. Preview the Teacher Notes for this lesson ☐ Make sure you have a way to display or hand out Examples 1-4 to the class

Test Specifications for the SAT

Teacher Implementation
Guide

Skills Insight

Official SAT Practice
Lesson Plans

Curriculum Review Worksheets

https://www.isbe.net/Pages/sat-psat.aspx

The Curriculum Review Worksheets are designed to help teachers

- understand many of the skills and knowledge that are assessed on the PSAT™ 8/9, PSAT™ 10. and SAT®:
- review student performance;
- identify skills and knowledge that need additional instruction and support; and
- develop a plan for implementation.

The Curriculum Review Worksheets contain sets of tables addressing most of the skills and knowledge assessed on the PSAT ™ 8/9, PSAT ™ 10, and SAT® (Reading, Writing and Language, and Math Tests).

Each table includes a description of a skill or knowledge and provides a structure to guide educators to evaluate the placement of that skill or knowledge within the curriculum.

To request the full version of the curriculum worksheets for Reading, Writing & Language, and Math, please email ILSAT @collegeboard.org.



Curriculum

Introduction

This set of curriculum review worksheets is designed to help you

- understand many of the skills and knowledge that are assesse Reading Tests; review student performance
- identify skills and knowledge that need additional instruction and support: and
- develop a plan for implementatio

The Curriculum Review Worksheets contain set of tables addressing most of the skills and knowledge assessed on the SAT Suite Reading Tests. Each table includes description of a skill or knowledge and provides a structure to guide you as you evaluate the place of that skill or knowledge in your

Each skill/knowledge table includes the following elements:

- 1. The name and definition of the skill or knowledge
- (or skill/knowledge area)
- 2. Questions guiding you to consider the place of the skill or knowledge in your curriculum
- 3. An indication of which SAT Suite subscore(s) the skill or knowled Definitions of the subscores appear below
- 4. A series of statements describing the ways in and extent to which various score ranges on the Reading Tests (e.g., 20-24) are typical attainment of the skill or knowledge, and spaces where you can i statements best reflects your students' general level of attainme

The statements in the tables are taken from Skills Insight for the SAT. linked describe typical performance of students scoring in various score ranges on ti SAT Suite tests). The Skills Insight statements are generalizations based on an questions and on the performance data of thousands of students taking one assessments. In a few cases, identified in this set of worksheets by dark gray

In each table, a light gray band signals that the 30-34 score range (and the "c complexity level) contains the college and career readiness test-level bench Test). More information about the benchmark, as well as benchmarks by gra can be found in The College and Career Readiness Benchmarks for the SAT Sui



SAT® Math Test Curriculum Review Worksheets

To use these worksheets, please

review the following resources:

District/school curriculum mai

Released SAT practice tests

Skills Insight for the SAT Suite

The College and Career Readiness Benchmarks for the SAT Suite of

K-12 Score Reporting Portal data

Introduction

Curriculum Review Worksheets are designed to help you

- understand many of the skills and knowledge that are assessed on the SAT Suite of Assessments Math Tectr
- review student performance
- · identify skills and knowledge that need additional instruction and support; and
- develop a plan for implementation

The curriculum review worksheets consist of a set of tables addressing most of the skills and knowledge assessed on the SAT Suite Math Tests. Each table includes description of a skill or knowledge and provides a structure to guide you as you evaluate the place of that skill or knowledge in your

Each skill/knowledge table includes the following elements

- The name and definition of the skill or knowledge
- 2. Questions guiding you to consider the place of the skill or knowledge in your curriculum
- 3 An indication of which SAT Suite subscore(s) the skill or knowledge is associated with Definitions of the subscores appear below
- 4. A series of statements describing the ways in and extent to which students scoring in various score ranges on the Math Test (e.g., 20-24) are typically able to demonstrate attainment of the skill or knowledge, and spaces where you can indicate which of these statements best reflects your students' general level of attainment



SAT Writing and Language Test Curriculum Review Worksheets

review the following resources:

K-12 Score Reporting Portal data

District/school curriculum maps

The College and Career Readiness Benchmarks for the SAT Suite of

Released SAT practice tests

Skills Insight for the SAT Suite

Introduction

This set of curriculum review worksheets is designed to help you

- understand many of the skills and knowledge that are assessed on the SAT Suite of Assessments Writing and Language Tests:
- review student performance
- identify skills and knowledge that need additional instruction and support; and
- develop a plan for implementation.

The Curriculum Review Worksheets contain a set of tables addressing most of the skills and knowledge assessed on the SAT Suite Writing and Language Tests. Each table includes description of a skill or knowledge (or broader skill/knowledge area, such as sentence structure) and provides a structure to guide you as you evaluate the place of that skill or knowledge in your curriculum

Fach skill/knowledge table includes the following elements

- The name and definition of the skill or knowledge
- (or skill/knowledge area) Questions guiding you to consider the place of the skill or knowledge in your curriculum
- 3. An indication of which SAT Suite subscore(s) the skill or knowledge is associated with Definitions of the subscores appear below.
- 4. A series of statements describing the ways in and extent to which students scoring in various score ranges on the Writing and Language Tests (e.g., 20-24) are typically able to demonstrate attainment of the skill or knowledge, and spaces where you can indicate which of these statements best reflects your students' general level of attainment

The statements in the tables are taken from Skills Insight for the SAT, linked to above. The Skills Insight describe typical performance of students scoring in various score ranges on the Writing and Language Tests (and other SAT Suite tests). The Skills Insight statements are generalizations based on analysis of hundreds of test questions and on the performance data of thousands of students taking one of the SAT Suite assessments. In a few cases, identified in this set of worksheets by dark gray bands, student

In each table, a light gray band signals that the 30-34 score range contains the college and caree readiness test-level benchmark (31 for the SAT Writing and Language Test). More information about the benchmark, as well as benchmarks by grade for grades 8 through 11, can be found in The College and Career Readiness Benchmarks for the SAT Suite of Assessments, also linked to above.

The set of tables below includes abbreviations for the four subscores associated with the SAT Suite Writing and Language Tests. Subscores identify areas of concentration on the tests and consequently





SAT® Suite Question Bank

Create custom, targeted question sets and improve instruction.



What Is the SAT® Suite Question Bank?

Enables Access

The SAT® Suite Question Bank provides educators with access to over 3,500 questions from the SAT®, PSAT/NMSQT™, PSAT™ 10, and PSAT™ 8/9 assessments.

Informs Instruction

Educators can view the skills and knowledge that students need to be successful on any SAT® Suite Assessment.

Is Easy to Use

Questions can be sorted by subscores, cross-test scores, and content domains.

SAT® Suite Question Bank

Educators can search for questions by assessment, test, subscore, and cross-test score.

Each question provides the following:

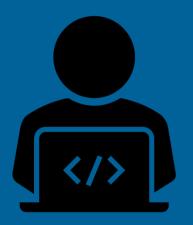
- Level of Difficulty
- Primary, Secondary, and Tertiary Dimensions
- Passage Text Complexity Level
- Calculator/No-Calculator for Math Questions
- Answer Choices
- Answer Explanations



Accessing the SAT® Suite Question Bank

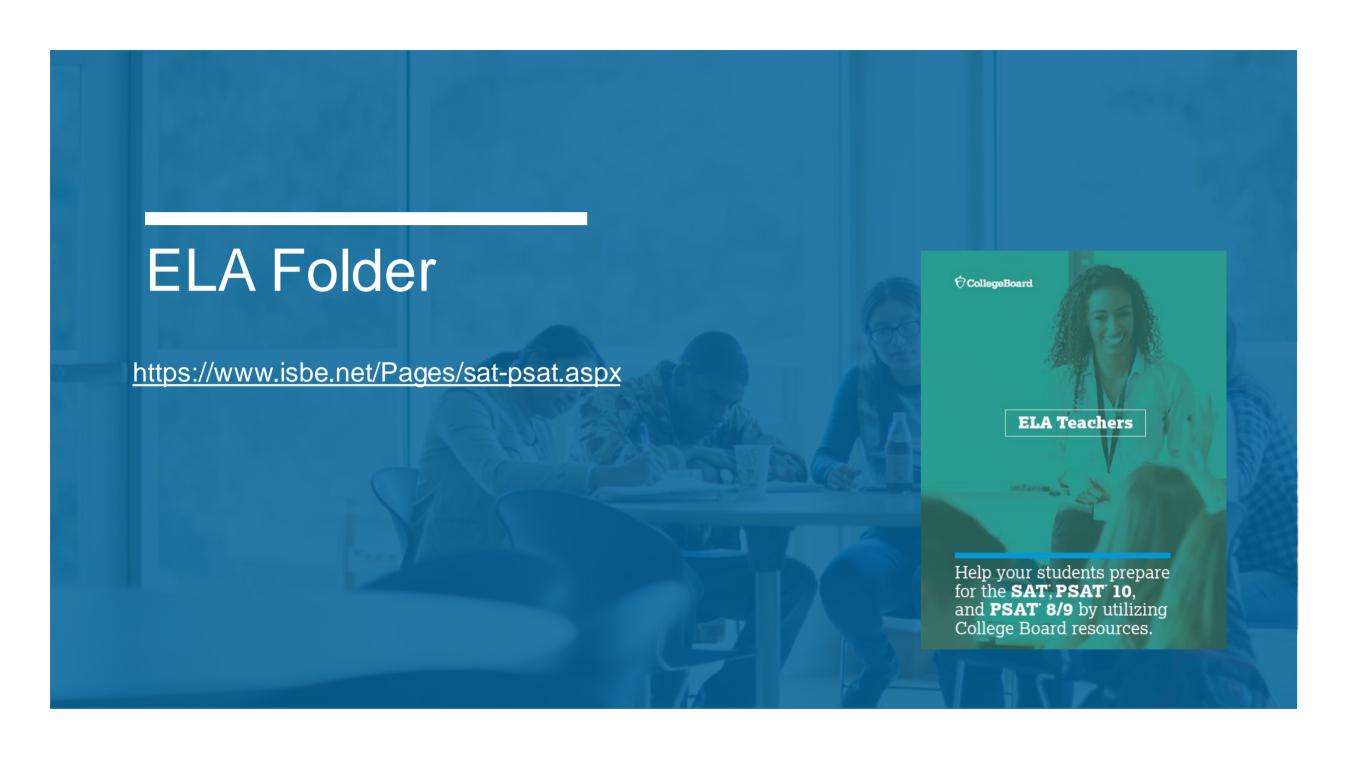
The SAT® Suite Question Bank May Be Accessed at

https://satsuitequestionbank.collegeboard.org.



Open to the Public

No College Board Account or Access Code Required



ELA Folder Resources

Test Specifications



Here's how to get the most out of the resources included in the English Language Arts folder:

Step 1: Review the <u>SAT Reading Test Specifications and the SAT Writing and Language Test Specifications</u> in a department meeting. Talk with your colleagues about each skill/knowledge listed.

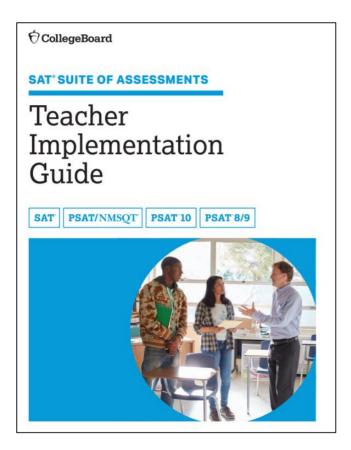
Discuss the following questions:

- Are there any skills or knowledge that aren't included in your ELA curriculum?
- Which five skills will your students apply effectively on the SAT?
- Which three skills will your students struggle with on the SAT?



ELA Folder Resources

Teacher Implementation Guide



Step 2: Review practice questions to see how skills are assessed on the SAT. Practice questions included in the <u>Teacher Implementation Guide</u> identify the specific test content that is assessed, making it easy to connect questions with the skills in the test specifications.

More practice questions are available at <u>sat.org/practice</u>. Besides the eight SAT practice tests, you can review answer explanations and scoring guides to clarify the skills being assessed.

ELA Folder Resources and Using the SAT® Suite Question Bank

https://satsuitequestionbank.collegeboard.org

[†] CollegeBoard

SAT | PSAT/NMSQT | PSAT 10 | PSAT 8/9

SAT Suite Question Bank:

Create custom, targeted question sets and improve instruction

The SAT* Suite Question Bank (SSQB) provides educators with access to over 3,500 questions from the SAT, PSAT/NMSQT*, PSAT* 10, and PSAT* 8/9 assessments.

The SSQB is designed to help educators:

- Become more familiar with the SAT Suite of Assessments.
- Better understand the knowledge and skills assessed to inform instruction, and
- Access sets of questions by subscores, cross-test scores, and content domains.

The SSQB is publicly available at **ob.org/seqb**. Educators don't need a College Board account or access code to utilize this resource.

For each question, the following information is provided:

- Level of difficulty
- Primary secondary and tertiary dimensions
- · Passage text complexity level for Reading and Writing and Language questions
- · Calculator/no calculator for math questions
- · Questions, answer choices, answer explanations

Educators can use the SSQB in many ways:

- Use the questions in the classroom and with colleagues to support curricular planning, professional development, and activities that improve instruction and learning.
- Export questions as PDF files.
- Print individual questions or sets of questions; up to 20 can be printed at one time.
- Additional information on the content domains and dimensions can be found in the SAT Teacher Implementation Guide, which can be found at sat.org/Implementation

Take a closer look at these ideas to help educators get started at **cb.org/aboutssqb**.

Step 3: Review your school's score data in the <u>K-12 Score Reporting</u>

<u>Portal</u>. The perfect way to get started with these skills is to see where your students are strong and where they need improvement.

- Review the *Instructional Planning Report*. Note average test scores, cross-test scores, and subscores.
- Hover over the question mark associated with each subscore. A description of the subscore and the associated Illinois Learning Standards will appear.
- Use the <u>SAT Suite Question Bank</u> to find questions that align to the Reading Test, specifically to the subscores:
 - -Words in Context
 - -Command of Evidence
 - -Standard English Conventions
 - Expression of Ideas



ELA Folder Resources

Curriculum Review Worksheets



SAT Evidence-Based Reading and Writing Section Curriculum Review Worksheets

To use these worksheets, please

review the following resources:

 K-12 Score Reporting Portal data District/school curriculum maps

Released SAT practice tests

Skills Insight for the SAT Suite

The College and Career Readiness

Benchmarks for the SAT Suite of

board.org/pdf/educator-bench-

(sat.org/skillsinsight)

Assessments

Introduction

This set of curriculum review worksheets is designed to help you

- understand many of the skills and knowledge that are assessed on the SAT Suite of Assessments Evidence-Based Reading and Writing Section;
- review student performance:
- identify skills and knowledge that need additional instruction and support; and
- · develop a plan for implementation

The Curriculum Review Worksheets contain a set of tables addressing most of the skills and knowledge assessed on the SAT Suite Evidence-Based Reading and Writing Section. Each table includes description of a skill or knowledge (or broader knowledge/skill area, such as sentence structure) and provides a structure to guide you as you evaluate the place of that skill or knowledge in your curriculum.

Each skill/knowledge table includes the following elements:

- 1. The name and definition of the skill or knowledge (or skill/knowledge area)
- 2. Questions guiding you to consider the place of the skill or knowledge in your curriculum
- 3. An indication of which SAT Suite subscore(s) the skill or knowledge is associated with
- 4. A series of statements describing the ways in and extent to which students scoring in various score ranges on the Writing and Language Tests (e.g., 20-24) are typically able to demonstrate attainment of the skill or knowledge, and spaces where you can indicate which of these statements best reflects your students' general level of attainment

The statements in the tables are taken from Skills Insight for the SAT, linked to above. The Skills Insight describe typical performance of students scoring in various score ranges on the Reading Test and Writing and Language Tests (and other SAT Suite tests). The Skills Insight statements are generalizations based on analysis of hundreds of test questions and on the performance data of thousands of students taking one of the SAT Suite assessments. In a few cases, identified in this set of worksheets by dark gray bands, student performance has to date been too inconsistent to allow for valid generalizations.

In each table, a light gray band signals that the 30-34 score range contains the college and career readiness test-level benchmark (30 for the SAT Reading Test; 31 for the SAT Writing and Language Test). More information about the benchmark, as well as benchmarks by grade for grades 8 through 11, can be found in The College and Career Readiness Benchmarks for the SAT Suite of Assessments, also linked to

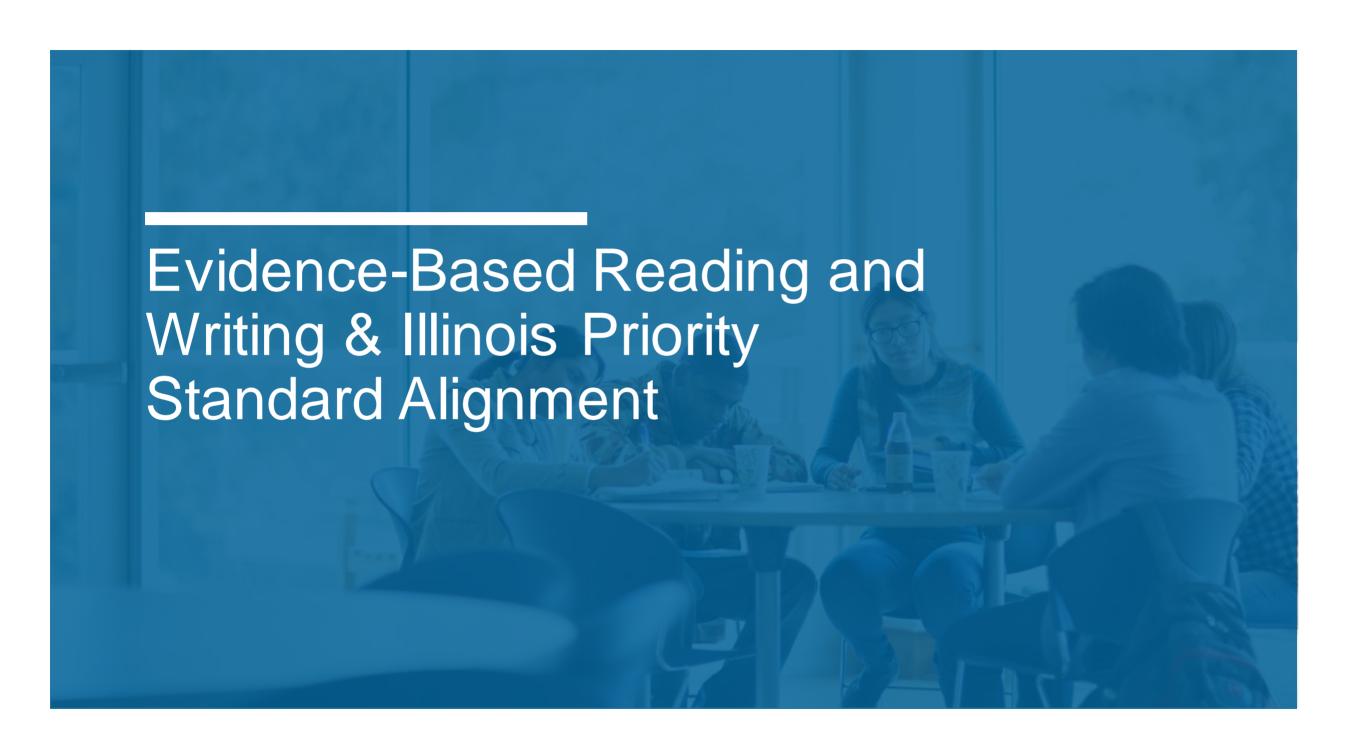
Subscores

The set of tables below includes abbreviations for the four subscores associated with the SAT Suite Writing and Language Tests. Subscores identify areas of concentration on the tests and consequently have potential instructional value

colleagues. You've already reviewed the mean test scores for your school. Now see the level of performance your students demonstrate in each domain. Read through the skills at each level, and identify where they're included (or not included) in the curriculum to highlight adjustments your department may need to make.

Step 4: Work through the Curriculum Review Worksheets with your





Subscores and the Illinois Learning Standards

Command of Evidence

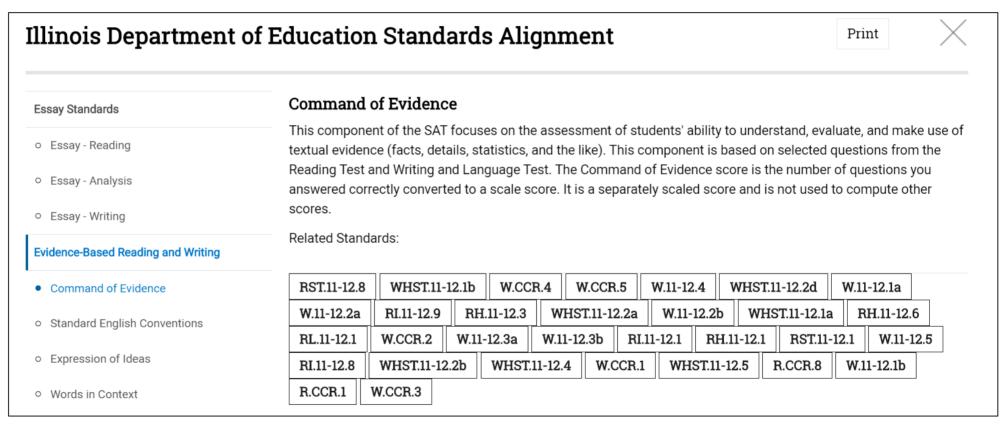
This component of the SAT focuses on the assessment of students' ability to understand, evaluate, and make use of textual evidence (facts, details, statistics, and the like). This component is based on selected questions from the Reading Test and Writing and Language Test. The Command of Evidence score is the number of questions you answered correctly converted to a scale score. It is a separately scaled score and is not used to compute other scores.

Related Standards:

RST.11-12.8	WHST.11-12.1b	W.CCR.4	
W.CCR.5	W.11-12.4	WHST.11-12.2d	
W.11-12.1a	W.11-12.2a	RI.11-12.9	
RH.11-12.3	WHST.11-12.2a	W.11-12.2b	
WHST.11-12.1a	RH.11-12.6	RL.11-12.1	
W.CCR.2	W.11-12.3a	W.11-12.3b	
RI.11-12.1	RH.11-12.1	RST.11-12.1	
W.11-12.5	RI.11-12.8	WHST.11-12.2b	
WHST.11-12.4	W.CCR.1	WHST.11-12.5	
R.CCR.8	W.11-12.1b	R.CCR.1	
M CCB 3			

See Standards

Subscores and the Illinois Learning Standards



Subscores and the Illinois Learning **Standards**

W.11-12.4

4. Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.

WHST.11-12.2d

d. Use precise language, domain-specific vocabulary and techniques such as metaphor, simile, and analogy to manage the complexity of the topic; convey a knowledgeable stance in a style that responds to the discipline and context as well as to the expertise of likely readers.

W.11-12.1a

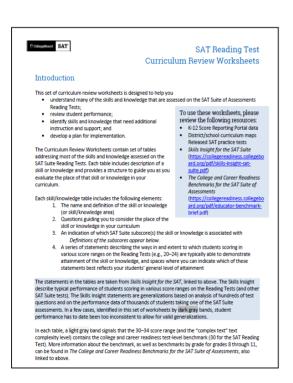
1. Write arguments to support claims in an analysis of substantive topics or texts, using valid reasoning and relevant and sufficient evidence. a. Introduce precise, knowledgeable claim(s), establish the significance of the claim(s), distinguish the claim(s) from alternate or opposing claims, and create an organization that logically sequences claim(s), counterclaims, reasons, and evidence.



Command of Evidence and Illinois Priority Standard Alignment

https://www.isbe.net/Documents/Illinois-Priority-Learning-Standards-2020-21.pdf

Reading Test: Command of Evidence



Subscore: Command of Evidence

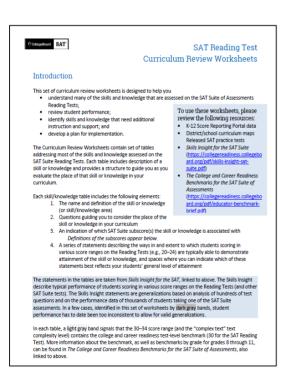
Command of Evidence requires students not only to derive information and ideas from a text but also, in some cases, to identify the portion of the text that serves as the best evidence for the conclusions they reach.

In this way, students both interpret text and support their interpretation by citing the most relevant textual support.

Illinois Priority Learning Standard: RI.11-12.1

Cite strong and thorough textual evidence to support analysis of what the text says explicitly as well as inferences drawn from the text, including determining where the text leaves matters uncertain.

Reading Test: Command of Evidence



Illinois Priority Learning Standard: RI.11-12.1

Cite strong and thorough textual evidence to support analysis of what the text says explicitly as well as inferences drawn from the text, including determining where the text leaves matters uncertain.

Score	Subscore	Skill	
Range			
15–19	COE	Determine the best textual evidence for a simple inference.	
20–24	COE	Determine the best textual evidence for an inference when both evidence and inference are relatively obvious and direct (e.g., a clearly stated fact as evidence for a simple inference).	
25–29	COE	Determine the best textual evidence for an inference when the evidence requires some interpretation or analysis.	
30–34	COE	Determine the best textual evidence for an inference when the evidence requires some interpretation or analysis and the inference requires close reading.	
35–40	COE	Determine the best textual evidence for an inference when the evidence is subtle, abstract, or figurative and the inference requires multiple steps.	



Reading Test: Command of Evidence



Illinois Priority Learning Standard: RI.11-12.1

Cite strong and thorough textual evidence to support analysis of what the text says explicitly as well as inferences drawn from the text, including determining where the text leaves matters uncertain.

Score Range: 15-19

Skill: Determine the best textual evidence for a simple inference.

Suggestion for Improvement:

When you read, look for details in the text that provide support (evidence) for the inferences you draw. For example, if an author suggests that plastic bags are harmful to sea life, look for specific examples in the text that illustrate such harm, and be prepared to cite them as textual evidence in support of your inference. If you cannot find such examples, go back to the text and reconsider your inference.

Score Range: 20–24

Skill: Determine the best textual evidence for an inference when both evidence and inference are relatively obvious and direct (e.g., a clearly stated fact as evidence for a simple inference).

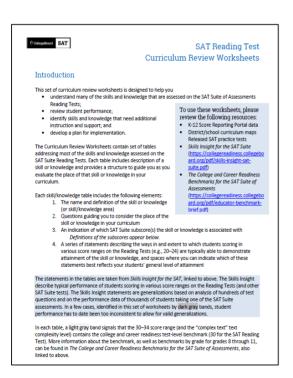
https://collegereadiness.collegeboard.org/pdf/skills-insight-sat-suite.pdf



Expression of Ideas and Illinois Priority Standard Alignment

https://www.isbe.net/Documents/Illinois-Priority-Learning-Standards-2020-21.pdf

Writing Test: Expression of Ideas



Subscore: Expression of Ideas

Questions that reflect the Expression of Ideas subscore focus on revision of text for topic development; organization, logic, and cohesion; and rhetorically effective use of language.

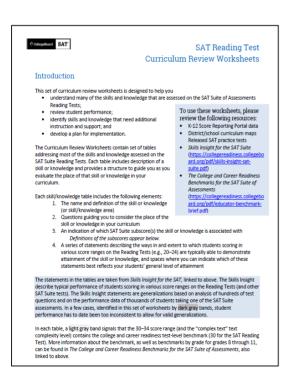
Students may be asked to do the following:

- -Replace a sentence with one that states the main claim more clearly.
- -Add evidence that supports an argument.
- Remove an example that's not relevant to the passage's central idea.
- -Correct the writer's interpretation of the data presented in a graph.
- Ensure that information and ideas are presented in the clearest and most logical order.

Illinois Priority Learning Standard: W.9-10.5 & W.11-12.5

Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience.

Writing Test: Expression of Ideas



Illinois Priority Learning Standard: W.9-10.5 & W.11-12.5

Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience.

Score	Subscore	Skill	
Range			
20–24	EOI	Delete information or ideas that are obviously irrelevant to the main focus of a paragraph or passage (e.g., eliminating a detail that has no apparent relationship to a passage's topic).	
25–29	EOI	Delete information or ideas that are clearly irrelevant to a paragraph or passage (e.g., eliminating a detail that interrupts an explanation or that significantly digresses from the main topic).	
30–34	EOI	Sharpen the focus of a paragraph or passage by making a thoughtful decision about adding, revising, or deleting information or ideas (e.g., eliminating material that is broadly relevant to a topic but that is poorly placed or integrated).	
35–40	EOI	Sharpen the focus of a paragraph or passage by making a sophisticated decision about adding, revising, or deleting information or ideas (e.g., adding or retaining optional but relevant material because it enhances meaning and clarity).	



Writing Test: Expression of Ideas



https://collegereadiness.collegeboard.org/pdf/skills-insight-sat-suite.pdf

Illinois Priority Learning Standard: W.9-10.5 & W.11-12.5

Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience.

Score Range: 20-24

Skill: Delete information or ideas that are obviously irrelevant to the main focus of a paragraph or passage (e.g., eliminating a detail that has no apparent relationship to a passage's topic).

Suggestion for Improvement:

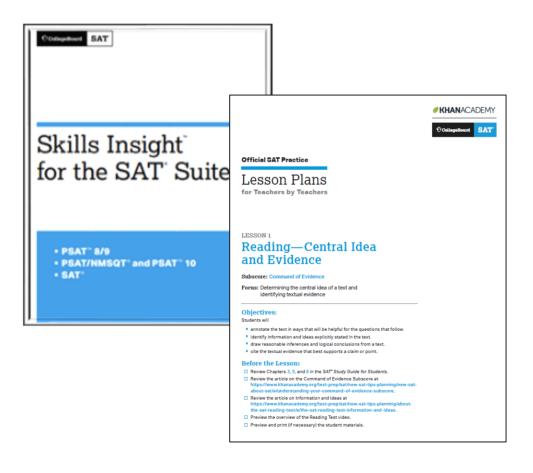
In drafting and revising, use supporting information to achieve a specific purpose, such as providing a cause for an effect or evidence for a claim.

Score Range: 25-29

Skill: Delete information or ideas that are clearly irrelevant to a paragraph or passage (e.g., eliminating a detail that interrupts an explanation or that significantly digresses from the main topic).

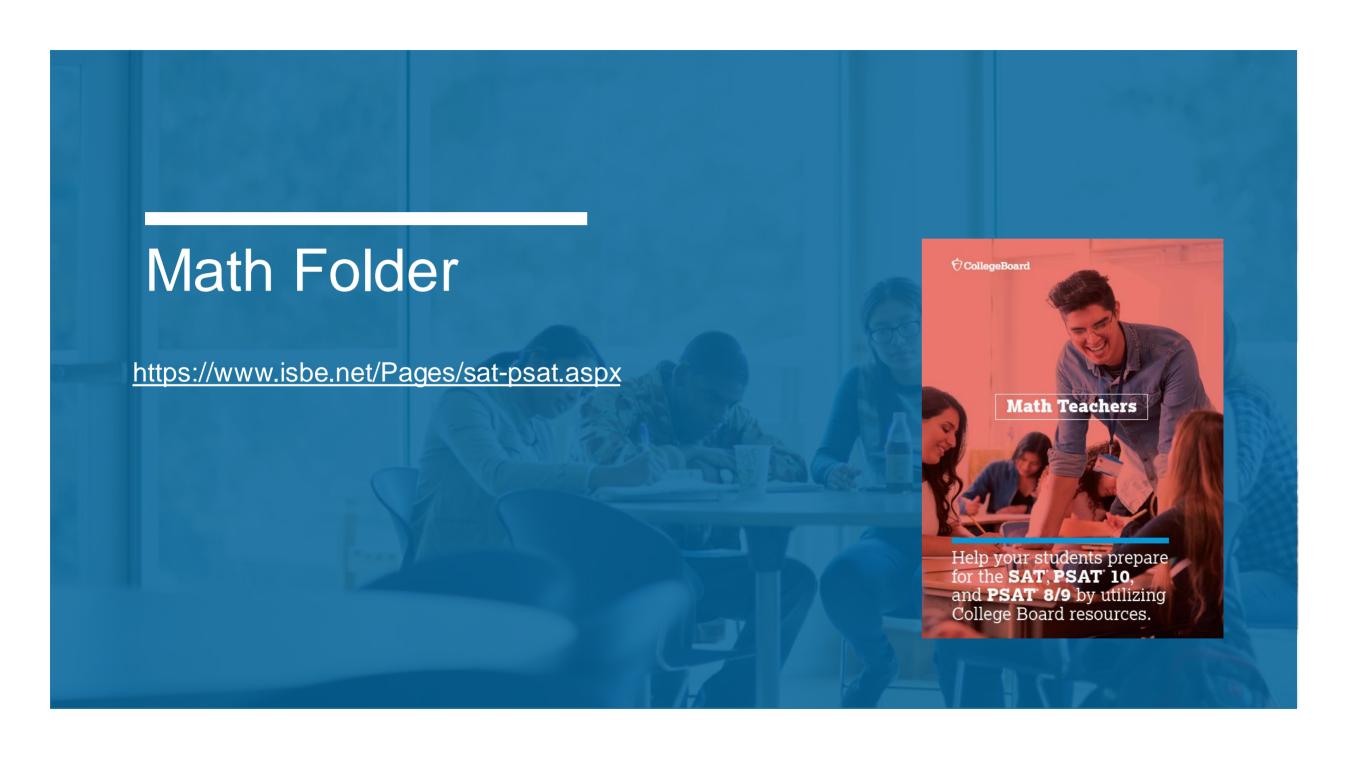
ELA Folder Resources

Skills Insight Official SAT Practice Lesson Plans



Step 5: Review sample lessons and strategies. Check <u>Skills Insight for the SAT Suite</u> to investigate the Suggestions for Improvement to advance to the next score range, and include some of them in your lessons. Review <u>Official SAT Practice Lesson Plans</u>, which use resources such as <u>Official SAT Practice on Khan Academy®</u> to foster a classroom experience that leads to independent practice. In addition, the <u>Teacher Implementation</u> <u>Guide</u> suggests instructional strategies to include in your lessons. Used with your expertise, these sample lessons and strategies can enhance your teaching practice.

Step 6: Continue to measure student progress. You've already noted the current mean scores on the SAT Suite of Assessments. As you include passages and questions in your formative and summative assessments, track student progress.



Math Folder Resources

Test Specifications

PROBLEM SOLVING AND DATA ANALYSIS: PROPORTIONAL RELATIONSHIPS, PERCENTAGES, COMPLEX MEASUREMENTS AND DATA INTERPRETATION AND SYNTHESIS SAT PROBLEM SOLVING AND DATA ANALYSIS DOMAIN Content Dimension Description Ratios rates Items will require students to solve problems by using a proportional relationship between quantities proportional calculating or using a ratio or rate, and/or using units, derived units, and unit conversion. relationships. Apply proportional relationships, ratios, rates, and units in a wide variety of contexts. Example: and units include but are not limited to scale drawings and problems in the natural and social sciences. Solve problems involving a. derived units, including those that arise from products (e.g., kilowatt-hours) and quotient (e.g., population per square kilometer); b. unit conversion, including currency exchange and conversion between different measur 3. Understand and use the fact that when two quantities are in a proportional relationship, if one changes by a scale factor, then the other also changes by the same scale factor. Percentages 1. Use percentages to solve problems in a variety of contexts, Examples include, but are not limited to. discounts, interest, taxes, tips, and percent increases and decreases for many different quantities. 2. Understand and use the relationship between percent change and growth factor (5% and 1.05, for example); include percentages greater than or equal to 100%. One-variable data: 1. Choose an appropriate graphical representation for a given data set distributions and Interpret information from a given representation of data in context Analyze and interpret numerical data distributions represented with frequency tables, histograms, measures of center dot plots, and boxplots. 4. For quantitative variables, calculate, compare, and interpret mean, median, and range. Interpret (but don't calculate) standard deviation. 5. Compare distributions using measures of center and spread, including distributions with different means and the same standard deviations and ones with the same mean and different standard 6. Understand and describe the effect of outliers on mean and median Given an appropriate data set, calculate the mean. 1. Using a model that fits the data in a scatterplot, compare values predicted by the model to values Two-variable given in the data set. data: models and scatterplots Interpret the slope and intercepts of the line of best fit in context 3. Given a relationship between two quantities, read and interpret graphs and tables modeling the 4. Analyze and interpret data represented in a scatterplot or line graph; fit linear, quadratic, and exponential models 5. Select a graph that represents a context, identify a value on a graph, or interpret information on the 6. For a given function type (linear, quadratic, exponential), choose the function of that type that best Compare linear and exponential growth. 8. Estimate the line of best fit for a given scatterplot; use the line to make predictions

Here's how to get the most out of the resources included in the Math folder:

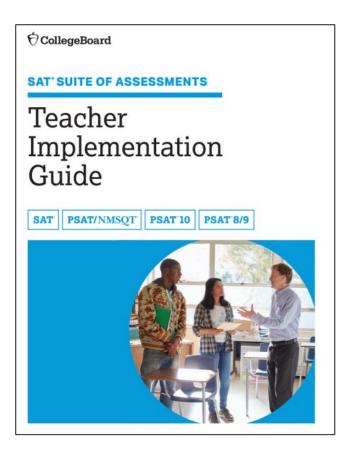
Step 1: Review the <u>SAT Math Test Specifications</u> in a department meeting. Talk with your colleagues about each skill/knowledge listed. Discuss the following questions:

- Are there any skills or knowledge that aren't included in your Math curriculum?
- Which five skills will your students apply effectively on the SAT?
- Which three skills will your students struggle with on the SAT?



Math Folder Resources

Teacher Implementation Guide



Step 2: Review practice questions to see how skills are assessed on the SAT. Practice questions included in the <u>Teacher Implementation Guide</u> identify the specific test content that is assessed, making it easy to connect questions with the skills in the test specifications.

More practice questions are available at <u>sat.org/practice</u>. Besides the eight SAT practice tests, you can review answer explanations and scoring guides to clarify the skills being assessed.

Math Folder and Using the SAT® Suite Question Bank

https://satsuitequestionbank.collegeboard.org

CollegeBoard

SAT | PSAT/NMSQT | PSAT 10 | PSAT 8/9

SAT Suite Question Bank:

Create custom, targeted question sets and improve instruction

The SAT* Suite Question Bank (SSQB) provides educators with access to over 3,500 questions from the SAT. PSAT/NMSQT*, PSAT* 10, and PSAT* 8/9 assessments.

The SSQB is designed to help educators:

- Become more familiar with the SAT Suite of Assessments.
- Better understand the knowledge and skills assessed to inform instruction, and
- · Access sets of questions by subscores, cross-test scores, and content domains.

The SSQB is publicly available at cb.org/seqb. Educators don't need a College Board account or access code to utilize this resource.

For each question, the following information is provided:

- Level of difficulty
- Primary, secondary, and tertiary dimensions
- Passage text complexity level for Reading and Writing and Language guestions
- Calculator/no calculator for math questions
- · Questions, answer choices, answer explanations

Educators can use the SSQB in many ways:

- Use the questions in the classroom and with colleagues to support curricular planning professional development, and activities that improve instruction and learning.
- · Export questions as PDF files
- Print individual questions or sets of questions; up to 20 can be printed at one time.
- Additional information on the content domains and dimensions can be found in the SAT Teacher Implementation Guide, which can be found at sat.org/Implementation

Take a closer look at these ideas to help educators get started at **cb.org/aboutssqb**.

Step 3: Review your school's score data in the <u>K-12 Score Reporting</u>

<u>Portal</u>. The perfect way to get started with these skills is to see where your students are strong and where they need improvement.

- Review the Instructional Planning Report. Note average test scores, cross-test scores, and subscores.
- Use the <u>SAT Suite Question Bank</u> to find questions that align to the Math Test, specifically to the subscores:
 - -Heart of Algebra
 - Problem-Solving Data Analysis
 - Passport to Advanced Math



Math Folder Resources

Curriculum Review Worksheets



SAT® Math Test Curriculum Review Worksheets

To use these worksheets, please

review the following resources:

District/school curriculum maps Released SAT practice tests

K-12 Score Reporting Portal data

Skills Insight for the SAT Suite

(https://collegereadiness.colleg

The College and Career Readiness

(https://collegereadiness.collegeb

ard.org/pdf/educator-benchmark-

Benchmarks for the SAT Suite of

Introduction

Curriculum Review Worksheets are designed to help you

- understand many of the skills and knowledge that are assessed on the SAT Suite of Assessments Math Tests:
- review student performance;
- identify skills and knowledge that need additional instruction and support; and
- · develop a plan for implementation.

The curriculum review worksheets consist of a set of tables addressing most of the skills and knowledge assessed on the SAT Suite Math Tests. Each table includes description of a skill or knowledge and provides a structure to guide you as you evaluate the place of that skill or knowledge in your curriculum.

Each knowledge/skills table includes the following elements:

1. The name and definition of the skill or knowledge

- (or knowledge/skills area)
- Questions guiding you to consider the place of the skill or knowledge in your curriculum
- An indication of which SAT Suite subscore(s) the skill or knowledge is associated with Definitions of the subscores appear below.
- 4. A series of statements describing the ways in and extent to which students scoring in various score ranges on the Math Test (e.g., 20–24) are typically able to demonstrate attainment of the skill or knowledge, and spaces where you can indicate which of these statements best reflects your students' general level of attainment

The statements in the tables are taken from Skills Insight for the SAT, linked to above. The Skills Insight describes typical performance of students scoring in various score ranges on the Math Tests (and other SAT Suite tests). The Skills Insight statements are generalizations based on analysis of hundreds of test questions and on the performance data of thousands of students taking one of the SAT Suite assessments. In a few cases, identified in this set of worksheets by dark gray bands, student performance has to date been too inconsistent to allow for valid generalizations.

In each table, a light gray band signals that the 30–34 score range contains the college and career readiness test-level benchmark (3.15 for the SAT Math Test). More information about the benchmark, as well as benchmarks by grade for grades 8 through 11, can be found in The College and Career Readiness Benchmarks for the SAT Suite of Assessments, also linked above.

Step 4: Work through the Curriculum Review Worksheets with your colleagues. You've already reviewed the mean test scores for your school. Now see the level of performance your students demonstrate in each domain. Read through the skills at each level, and identify where they're included (or not included) in the curriculum to highlight adjustments your department may need to make.





Subscores and the Illinois Learning Standards

Heart of Algebra

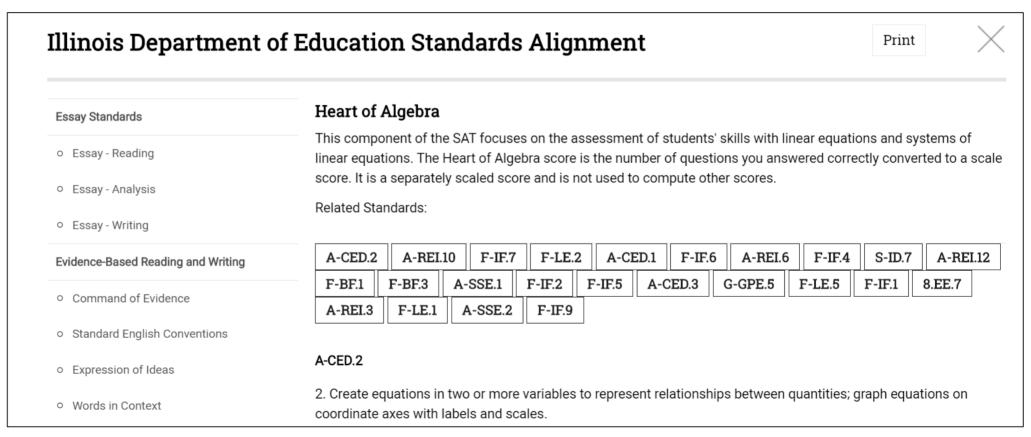
This component of the SAT focuses on the assessment of students' skills with linear equations and systems of linear equations. The Heart of Algebra score is the number of questions you answered correctly converted to a scale score. It is a separately scaled score and is not used to compute other scores.

Related Standards:

A-CED.2	A-REI.10	F-IF.7
F-LE.2	A-CED.1	F-IF.6
A-REI.6	F-IF.4	S-ID.7
A-REI.12	F-BF.1	F-BF.3
A-SSE.1	F-IF.2	F-IF.5
A-CED.3	G-GPE.5	F-LE.5
F-IF.1	8.EE.7	A-REI.3
F-LE.1	A-SSE.2	F-IF.9

See Standards

Subscores and the Illinois Learning Standards



Subscores and the Illinois Learning Standards

A-REI.3

3. Solve linear equations and inequalities in one variable, including equations with coefficients represented by letters.

F-LE.1

1. Distinguish between situations that can be modeled with linear functions and with exponential functions. a. Prove that linear functions grow by equal differences over equal intervals, and that exponential functions grow by equal factors over equal intervals. b. Recognize situations in which one quantity changes at a constant rate per unit interval relative to another. c. Recognize situations in which a quantity grows or decays by a constant percent rate per unit interval relative to another.

A-SSE.2

2. Use the structure of an expression to identify ways to rewrite it.



Heart of Algebra and Illinois Priority Standard Alignment

https://www.isbe.net/Documents/Illinois-Priority-Learning-Standards-2020-21.pdf

Subscore & IL Priority Standard Alignment

Heart of Algebra



Subscore: Heart of Algebra

Heart of Algebra assesses students' ability to analyze, fluently solve, and create linear equations and inequalities. Students will also be expected to analyze and fluently solve equations and systems of equations using multiple techniques.

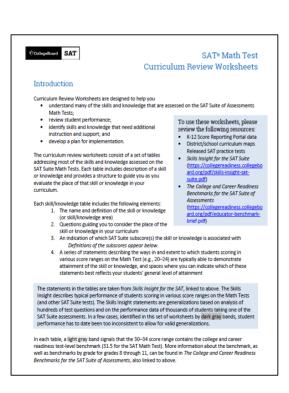
- To assess full command of the material, these problems will vary significantly in form and appearance.
- Problems may be straightforward fluency exercises or may pose challenges of strategy or understanding, such as interpreting the interplay between graphical and algebraic representations or solving as a process of reasoning.
- Students will be required to demonstrate both procedural skill and a deeper understanding of the concepts that undergird linear equations and functions to successfully exhibit a command of the Heart of Algebra.

Illinois Priority Learning Standard: A-REI.3

Solve linear equations and inequalities in one variable, including equations with coefficients represented by letters.

Subscore & IL Priority Standard Alignment

Heart of Algebra



Illinois Priority Learning Standard: A-REI.3

Solve linear equations and inequalities in one variable, including equations with coefficients represented by letters.

Score	Subscore	Skill	
Range			
15–19	HOA	Create a simple expression in one variable that represents a context.	
		Evaluate a one-variable expression by substituting a value for the variable.	
20–24	HOA	Create an expression or equation in one variable that models a context.	
25–29	HOA	Solve a linear equation in one variable.	
		Interpret a term from a linear equation in one variable in the form $ax + b = c$.	
30–34	HOA	Determine the conditions under which a linear equation in one variable has	
		no solution, one solution, or infinitely many solutions.	
		Solve a linear equation in one variable that requires computation with	
		fractions or decimals.	
35–40	HOA	Create and solve a linear equation in one variable representing a context, utilizing insight to identify the correct coefficients and constants in the equation.	
		Make connections between different representations of linear equations in one variable; these representations often include symbolic representations, which may contain a variable constant.	



Subscore & IL Priority Standard Alignment

Heart of Algebra



https://collegereadiness.collegeboard.org/pdf/skills-insight-sat-suite.pdf

Illinois Priority Learning Standard: A-REI.3

Solve linear equations and inequalities in one variable, including equations with coefficients represented by letters.

Score Range: 15-19

Skill: Evaluate a one-variable expression by substituting a value for the variable

Suggested Improvement:

When reading a real-world problem, identify multiple quantities that vary and develop a linear equation or a linear function that defines their relationship.

Score Range: 20-24

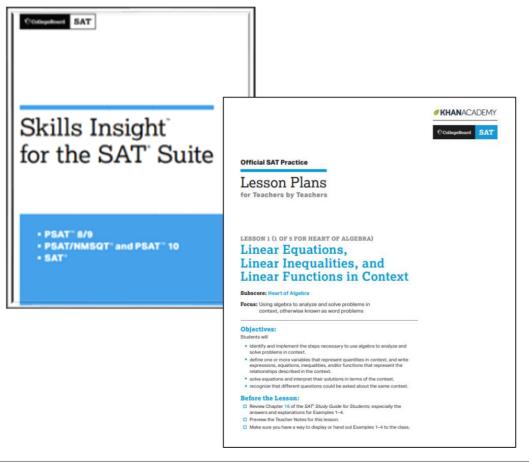
Skill: Solve a linear equation in one variable.

Score Range: 25-29

b = c.

Math Folder Resources

Skills Insight Official SAT Practice Lesson Plans



Step 5: Review sample lessons and strategies. Check <u>Skills Insight for the SAT Suite</u> to investigate the Suggestions for Improvement to advance to the next score range and include some of them in your lessons. Review <u>Official SAT Practice Lesson Plans</u>, which use resources such as <u>Official SAT Practice on Khan Academy®</u> to foster a classroom experience that leads to independent practice. In addition, the <u>Teacher Implementation</u> <u>Guide</u> suggests instructional strategies to include in your lessons. Used with your expertise, these sample lessons and strategies can enhance your teaching practice.

Step 6: Continue to measure student progress. You've already noted the current mean scores on the SAT Suite of Assessments. As you include questions in your formative and summative assessments, track student progress.



https://www.isbe.net/Pages/sat-psat.aspx



Science Folder Resources

Science Guide

The SAT and the Science Teacher

With its traditional focus on assessing general reading, writing, language, and math skills, the SAT, frankly, hasn't had much relevance for science teachers. That situation, however, has changed significantly with the redesign of the SAT.

An important feature of the test—one based on extensive evidence and reflective of best instructional practices—is its emphasis on students applying their literacy and math knowledge and skills in a wide range of subjects. This across-the-curriculum focus means that teachers in many fields, including science, have a critical and specific role to play in helping students get ready for the SAT and, more importantly, acquire the knowledge and skills they'll need to succeed in college and career training programs.

This guide is intended to help you, the science teacher, get more familiar with the SAT, better understand its relationship to the teaching and learning already going on in your classroom, and identify ways to enhance your students' college and career readiness.

Though many of the suggestions in this guide have broad applicability, the information and additioned apecifically to science teachers such as you. We do want to note at the outset that our goal here is norto try to convert you into an English language arts or math teacher. Instead, our intent is to show how fostering your students' ability to handle the special challenges of reading, writing, language, and quantitative analysis in your field contributes in a unique way to the literacy and numeracy work going on in your school.

Disciplinary Literacy and Numeracy on the SAT

One hallmark of the SAT is its emphasis on disciplinary literacy and numeracy. Rather than simply ask students to demonstrate generic reading, writing language, and math knowledge and skills in ways that lack real-world relevance, the SAT makes extensive use of texts, tasks, and scenarios similar to those students already encounter in their high school classes and to those they'll have to deal with in college and career training programs.

In recent years, numerous educators and researchers have affirmed the value of subject-based approaches to teaching literacy and numeracy. Writing in the Journal of Literacy Research, Cynthia Shanahan, Timothy Shanahan, and Cynthia Misischia make a persuasive case that students' literacy education should extend beyond generic communication skills to include the differing demands of particular fields of study: "In addition to the 'domain knowledge' of the disciplines . . . each discipline possesses specialized genre, vocabulary, traditions of communication, and standards of quality and precision, and each requires specific kinds of reading and writing to an extent greater than has been recognized by teachers or teacher preparation programs." Similarly, Kathleen W. Craver, in Developing Quantitative Literacy Skills in History and the Social Sciences, argues for a broad-based, cross-curricular approach to numeracy: "Being charged with the responsibility that our students become quantitatively literate has long been the sole domain of those teaching mathematics. In the data-drenched world of the current century, however, it has now become the responsibility of not only history and social science educators but also STEM (science, technology, engineering, and mathematics) coordinators and curriculum development specialists to integrate quantitative literacy skills into all aspects of the school curriculum, including the humanities."

Here's how to get the most out of the resources included in the Science folder:

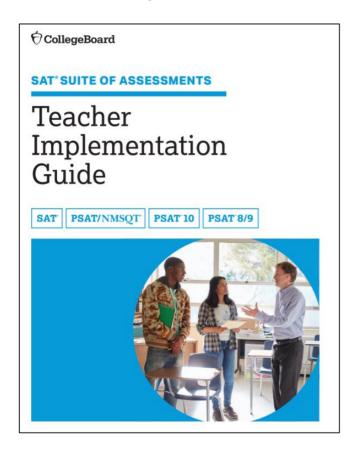
Step 1: Review the <u>Analysis in Science Guide</u> in a department meeting. Talk with your colleagues about the skills/knowledge listed for each test that are related to science instruction. Discuss the following questions:

- Are there any skills or knowledge that aren't included in your curriculum?
- Which five skills will your students apply effectively on the SAT?
- Which three skills will your students struggle with on the SAT?



Science Folder Resources

Teacher Implementation Guide



Step 2: Review practice questions to see how skills are assessed on the SAT. This Toolkit includes two sample passages and associated questions from the Reading Test, one passage and associated questions from the Writing and Language Test, and several sample Math Test questions.

More practice questions are available at <u>sat.org/practice</u>. Besides the eight SAT practice tests, you can review answer explanations and scoring guides to clarify the skills being assessed.

Science and Using the SAT Suite Question Bank

https://satsuitequestionbank.collegeboard.org

[†] CollegeBoard

SAT | PSAT/NMSQT | PSAT 10 | PSAT 8/9

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The SSQB is designed to help educators:

- Become more familiar with the SAT Suite of Assessments
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The SSQB is publicly available at **ob.org/seqb**. Educators don't need a College Board account or access code to utilize this resource.

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Step 3: Review your school's score data in the <u>K-12 Score Reporting</u>

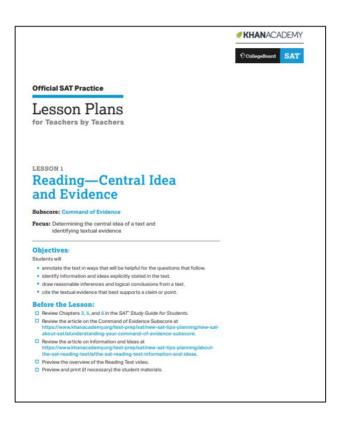
<u>Portal</u>. The perfect way to get started with these skills is to see where your students are strong and where they need improvement.

- Review the *Instructional Planning Report*. Note average test scores, cross-test scores, and subscores, paying particular attention to the Analysis in Science cross-test score.
- The Question Analysis Report shows you which questions contributed to the Analysis in Science cross-test score and how your students performed on these questions.
- Determine whether they're having more difficulty with the Reading Test,
 Writing and Language Test, or Math Test questions in science contexts.
- Use the <u>SAT Suite Question Bank</u> to find questions that align to the Analysis in Science cross-test score.



Science Folder Resources

Official SAT Practice Lesson Plans



Step 4: Review sample lessons and strategies. Investigate <u>Official SAT Practice Lesson Plans</u>, which use resources such as Official SAT Practice on Khan Academy® to foster a classroom experience that builds students' college and career readiness skills. Several lessons relate to science instruction.

The Quantitative Texts Lesson Plan is included in this Toolkit.

Other lessons develop essential reading skills to help students do better in science. Review <u>Reading—Central Idea and Evidence</u> to get ideas for achieving strong reading skills.

Step 5: Continue to measure student progress. You've already noted the current Analysis in Science cross-test score on the SAT Suite of Assessments. As you include passages and questions in your formative and summative assessments, track student progress.

Social Studies Folder

https://www.isbe.net/Pages/sat-psat.aspx



Social Studies Folder Resources

Social Studies Guide

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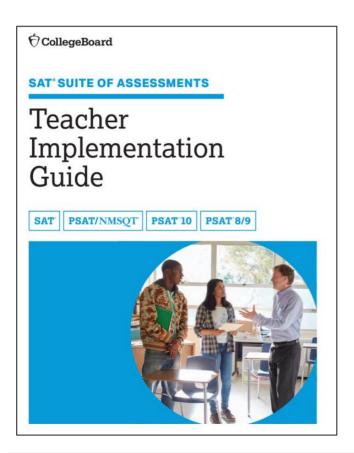
Step 1: Review the <u>Analysis in Social Studies Guide</u> in a department meeting. Talk with your colleagues about the skills/knowledge listed for each test that are related to social studies instruction. Discuss the following questions:

- Are there any skills or knowledge that aren't included in your curriculum?
- Which five skills will your students apply effectively on the SAT?
- Which three skills will your students struggle with on the SAT?



Social Studies Folder Resources

Teacher Implementation Guide



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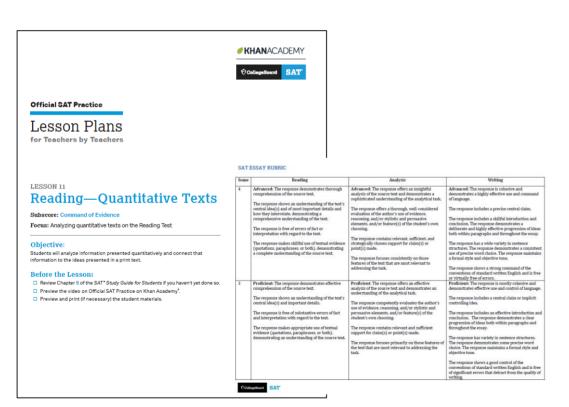
<u>Portal</u>. The perfect way to get started with these skills is to see where your students are strong and where they need improvement.

- Review the *Instructional Planning Report*. Note average test scores, cross-test scores, and subscores, paying particular attention to the Analysis in History/Social Studies cross-test score.
- The Question Analysis Report shows you which questions contributed to the Analysis in History/Social Studies cross-test score and how your students performed on these questions.
- Determine whether they're having more difficulty with the Reading Test,
 Writing and Language Test, or Math Test questions in social studies contexts.
- Use the <u>SAT Suite Question Bank</u> to find questions that align to the Analysis in History/Social Studies cross-test score.



Social Studies Folder Resources

Official SAT Practice Lesson Plans Essay Rubric



Step 4: Review sample lessons and strategies. Investigate <u>Official SAT Practice Lesson Plans</u>, which use resources such as Official SAT Practice on Khan Academy® to foster a classroom experience that builds students' college and career readiness skills. Several lessons relate to social studies instruction.

The Quantitative Texts Lesson Plan is included in this Toolkit. Other lessons develop essential reading skills to help students do better in social studies. Review <u>Reading—Synthesis and Paired Passages</u> to get ideas for achieving strong reading skills.

This Toolkit includes the SAT Essay Rubric and an Official SAT Practice Lesson Plan to introduce the Essay.

For more on the SAT Essay, the <u>self-guided course</u> on the Essay walks you through the Essay prompt and offers an extra lesson plan.

Step 5: Continue to measure student progress. You've already noted the current Analysis in History/Social Studies cross-test score on the SAT Suite of Assessments. As you include passages and questions in your formative and summative assessments, track student progress.



How Can the SAT® Suite Question Bank Be Used?

How Can the SAT® Suite Question Bank Be Used?

1 In Instruction

- 2 With the SAT® Test Specifications
- 3 With Curriculum Review Worksheets

The SAT® Suite Question Bank (SSQB) and Instruction

Teachers can find questions that align with skills taught in class and use them in multiple ways.



Ask SSQB questions as bell ringers or exit tickets.



Engage in guided-level practice on difficult questions.

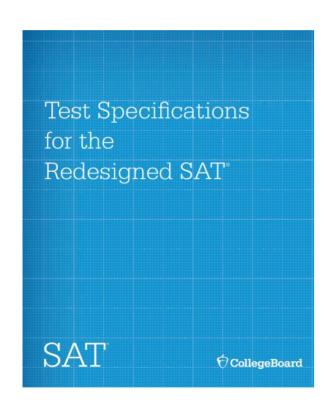


Use SSQB questions in group work/collaborative practice.



Use SSQB passages to build stamina for text complexity.

The SAT® Suite Question Bank (SSQB) and the SAT® Test Specifications Document



Test Specifications for the SAT

Identify skills in Test Specifications.

Predict which skills students will likely apply successfully and those with which they may struggle.

- Associate questions from the SSQB with the selected skill.

 Read the passages and questions that assess the skills that were selected.
- Use the SSQB to implement formative assessments and instructional interventions designed to improve student understanding.
- Assess how closely the SAT® and local assessments are aligned.
 Review skills and questions. Decide whether changes are needed in local assessments and develop necessary instructional interventions.

The SAT® Suite Question Bank (SSQB) and Curriculum Review Worksheets



To use these worksheets, please

 identify skills and knowledge that need additional instruction and support: and

 District/school curriculum mag develop a plan for implementation The Curriculum Review Worksheets contain set of tables Skills Insight for the SAT Suite addressing most of the skills and knowledge assessed on the

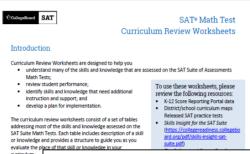
SAT Suite Reading Tests. Each table includes description of a skill or knowledge and provides a structure to guide you as you evaluate the place of that skill or knowledge in your

Each skill/knowledge table includes the following elements 1. The name and definition of the skill or knowledge

- (or skill/knowledge area) Questions guiding you to consider the place of the
- skill or knowledge in your curriculum
- 3. An indication of which SAT Suite subscore(s) the skill or knowledge is associated with Definitions of the subscores appear below
- 4. A series of statements describing the ways in and extent to which students scoring in various score ranges on the Reading Tests (e.g., 20-24) are typically able to demonstrate attainment of the skill or knowledge, and spaces where you can indicate which of these statements best reflects your students' general level of attainment

The statements in the tables are taken from Skills Insight for the SAT, linked to above. The Skills Insight describe typical performance of students scoring in various score ranges on the Reading Tests (and other SAT Suite tests). The Skills Insight statements are generalizations based on analysis of hundreds of test questions and on the performance data of thousands of students taking one of the SAT Suite assessments. In a few cases, identified in this set of worksheets by dark gray bands, student performance has to date been too inconsistent to allow for valid generalizations.

In each table, a light gray band signals that the 30-34 score range (and the "complex text" text complexity level) contains the college and career readiness test-level benchmark (30 for the SAT Reading Test). More information about the benchmark, as well as benchmarks by grade for grades 8 through 11. can be found in The College and Career Readiness Benchmarks for the SAT Suite of Assessments, als



Each skill/knov

Insight descr (and other S hundreds of

In each table, readiness test well as benchi Benchmarks for

review the following resources:

K-12 Score Reporting Portal data

Released SAT practice tests

The College and Career Readin

Benchmarks for the SAT Suite of

SAT Suite Writing and Language Tests. Each table includes description of a skill or knowledge (or broader skill/knowledge area, such as sentence structure) and provides a structure to guide you as you evaluate the place of that skill or knowledge

Each skill/knowledge table includes the following elen

1. The name and definition of the skill or knowledge

This set of curriculum review worksheets is designed to help you

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The Curriculum Review Worksheets contain a set of tables

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Writing and Language Tests:

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SAT Writing and Language Test

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Benchmarks for the SAT Suite of

 A series of statements describing the ways in and extent to which students scoring in various score ranges on the Writing and Language Tests (e.g., 20–24) are typically able to lemonstrate attainment of the skill or knowledge, and spaces where you can indicate which of these statements best reflects your students' general level of attainment

The statements in the tables are taken from Skills Insight for the SAT, linked to above. The Skills Insight describe typical performance of students scoring in various score ranges on the Writing and Language Tests (and other SAT Suite tests). The Skills Insight statements are generalizations based on analysis of hundreds of test questions and on the performance data of thousands of students taking one of the SAT Suite assessments. In a few cases, identified in this set of worksheets by dark gray bands, student performance has to date been too inconsistent to allow for valid generalization

In each table, a light gray band signals that the 30-34 score range contains the college and career readiness test-level benchmark (31 for the SAT Writing and Language Test). More information about the benchmark, as well as benchmarks by grade for grades 8 through 11, can be found in *The College and* Career Readiness Benchmarks for the SAT Suite of Assessments, also linked to above

The set of tables below includes abbreviations for the four subscores associated with the SAT Suite Writing and Language Tests. Subscores identify areas of concentration on the tests and cons have potential instructional value.



Identify skills on the Curriculum Review Worksheets currently included in the curriculum.



Use the SSQB to associate questions with each of those skills.

Determine whether these questions align with the types of guestions that assess the skills in the current curriculum.



Look at questions for skills *not* currently in the curriculum.

Discuss how students can be exposed to these skills and questions.



Include questions from the SSQB in the curriculum planning process.

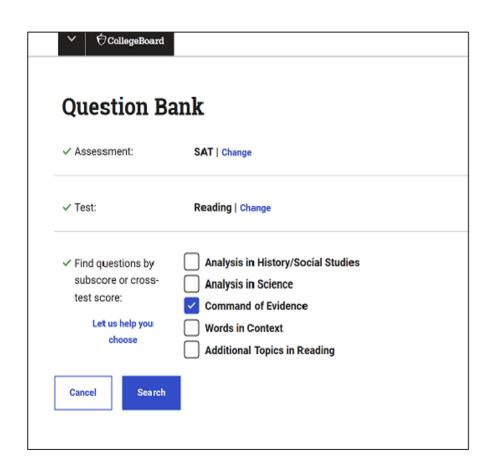
Decide how to expose students to the skills and questions in the curriculum.





Utilizing the SAT® Suite Question Bank

How to Create a Question Set within the SAT® Suite Question Bank



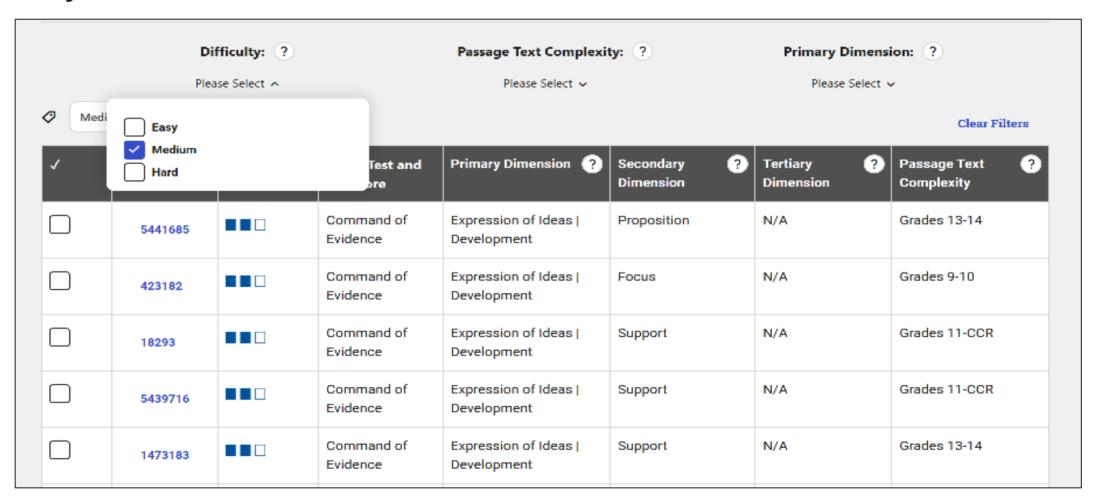
Go to https://satsuitequestionbank.collegeboard.org

To create a question set:

- Use the filters to narrow the list.
- Select question IDs to view question content.
- Check boxes to create the set (up to 20 questions).
- Select the "Export PDF" button.
- Choose to print questions with or without the correct answers and explanations.

Filters: Level of Difficulty

Questions are classified as easy, medium, or hard and are based on student performance.

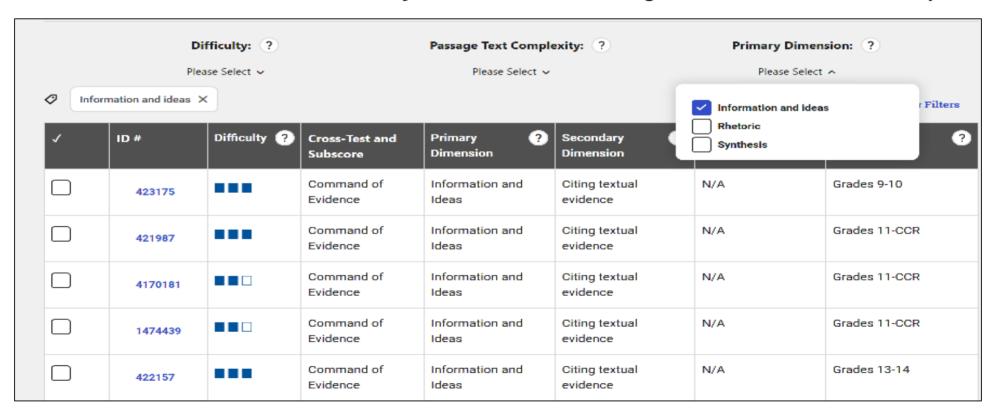


Dimensions

Primary Dimensions: broad categories of the skills and knowledge measured by each test

Secondary Dimensions: subcategories of each primary dimension

Tertiary Dimensions: categories of each secondary dimension





Next Steps

Teacher Toolkit

- Share the Back-to-School Toolkit with staff at https://www.isbe.net/Pages/sat-psat.aspx.
- Contact ILSAT@collegeboard.org to request the full version of the curriculum worksheets for Reading, Writing and Language, and Math.

SAT® Suite Question Bank

- Access the SAT[®] Suite Question Bank at https://satsuitequestionbank.collegeboard.org.
- Determine the best use of the readily available 3,500 questions.

Please email questions or comments about this presentation to LLSAT@collegeboard.org.

Thank You



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