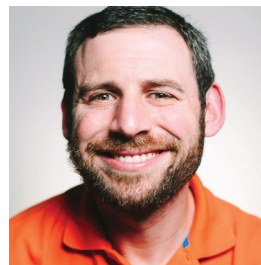




# SAT Subject Test Packet

A SUBJECT-BY-SUBJECT OVERVIEW OF EVERY SAT SUBJECT TEST



IT IS THE SUPREME  
ART OF THE TEACHER  
TO AWAKEN JOY IN  
CREATIVE EXPRESSION  
AND KNOWLEDGE.

– ALBERT EINSTEIN

# SAT Subject Tests: Overview

Some colleges require up to three SAT Subject Tests® for admission. Be sure to check each school's website for up-to-date admissions requirements. Each test is 60 minutes and scaled from 200-800. Students can take up to 3 SAT Subject Tests on the same day.

SAT Subject Test	Dates Offered	Number of Questions	Content
<b>Biology E/M (Ecological/Molecular)</b>	All SAT dates except March	80	Cellular and molecular biology, ecology, genetics, organismal biology, evolution and diversity
<b>Chemistry</b>	All SAT dates except March	85	Structure of matter, states of matter, reaction types, stoichiometry, equilibrium and reaction rates, thermochemistry, descriptive chemistry, laboratory
<b>Languages</b>	Check College Board for specific dates	70-85, depending on language	Grammar, reading comprehension, vocabulary, word choice, etc.
<b>Languages with Listening</b>	November SAT date ONLY	70-90, depending on language	Reading and listening; students must bring a CD player and headphones to the exam
<b>Literature</b>	All SAT dates except March	~60	6-8 reading selections from English/American Literature, 17th-20th century, prose passages, poetry and drama
<b>Math 1</b>	All SAT dates except March	50	Numbers and operations, algebra, geometry and measurement, data analysis, statistics and probability
<b>Math 2</b>	All SAT dates except March	50	Numbers and operations, algebra, geometry, data analysis, polar coordinates, series, vectors
<b>Physics</b>	All SAT dates except March	75	Mechanics, electricity and magnetism, waves and optics, heat and thermodynamics, modern physics
<b>U.S. History</b>	All SAT dates except March	90	U.S. politics, economics, social ideals, culture, and foreign policy 1789 to present
<b>World History</b>	August, December, and June SAT dates	95	Prehistory to 1900, posthistory 1900, cross-chronological, Europe, Africa, Southwest Asia, South and Southeast Asia, East Asia and the Americas

## General SAT Subject Test Information

60 minutes per test

- Students can take up to 3 SAT Subject Tests\* on the same day
- Students cannot take the SAT reasoning test and Subject Tests on the same day.

Scaled score from 200-800  
 +1 raw point for each correct answer  
 -1/4 point for each incorrect answer  
 +0 for each blank answer

\*(SAT and SAT Subject Test are registered trademarks of the College Board, which was not involved in the production of, and does not endorse this product.)

# SAT Subject Test: Biology E/M



## The Details: Biology (Ecological/Molecular)

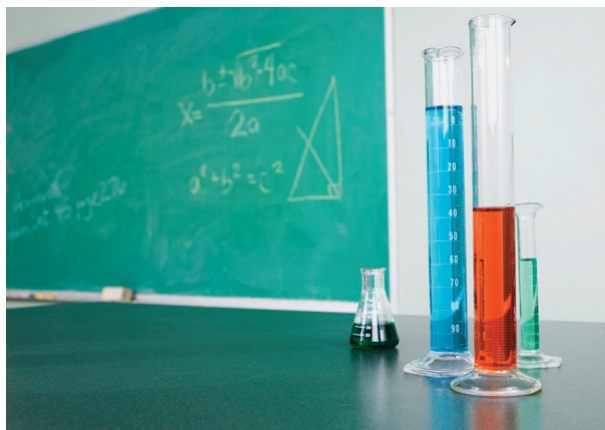
- Dates offered: All SAT dates except March
- 80 multiple choice questions
- Five answer choices
  - » 60 standard Biology questions
  - » 20 of EITHER Molecular (M) or Ecological (E) Biology
  - » Students choose between E and M on the day of the test; cannot take both
- Calculators are NOT allowed

## General Material Covered

Material Covered	% of E test	% of M test	Details
Cellular and Molecular Biology	15%	27%	Cell structure and organization, mitosis, photosynthesis, cellular respiration, enzymes, biosynthesis, biological chemistry
Ecology	23%	13%	Energy flow, nutrient cycling, populations and communities, ecosystems, biomes, conservation biology, biodiversity, effects of human intervention
Genetics	15%	20%	Mendelian genetics, inheritance patterns, molecular genetics, population genetics, meiosis
Organismal Biology	25%	25%	Structure, function, and development of organisms (emphasis on plants/animals), animal behavior
Evolution and Diversity	22%	15%	Origin of life, evidence and patterns of evolution, natural selection, speciation, classification and diversity of organisms

Skill Specifications (both versions)	Percent Covered
Knowledge of Fundamental Concepts	30%
Application	35%
Interpretation	35%

# SAT Subject Test: Chemistry



## Question Types: Chemistry

- Classification: Groups of five options followed by three-five questions where you must select one of the five options as an answer.
- Relationship-analysis questions: Two statements given. Determine if both are true and, if so, if the second statement caused the first.
- Standard multiple choice

## The Details: Chemistry

- 85 multiple choice questions
- Five answer choices
- Calculators are NOT allowed
- Dates offered: All SAT dates except March

## General Material Covered

Topic	Percent Covered	Details
Structure of matter	25%	Atomic structure, molecular structure, bonding
States of matter	16%	Gases, liquids and solids, solutions
Reaction types	14%	Acids and bases, oxidation-reduction, precipitation
Stoichiometry	14%	Mole concept, chemical equations
Equilibrium and reaction rates	5%	Equilibrium systems, rates of reactions
Thermodynamics	6%	Conservation of energy, calorimetry and specific heats, entropy
Descriptive chemistry	12%	Nomenclature for bonds, ions, and compounds, periodic trends
Laboratory chemistry	8%	Observations, measurements, hypotheses

# SAT Subject Test: Language



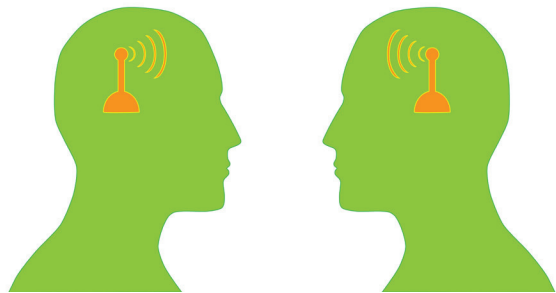
## The Details: Six Different Languages (French, German, Modern Hebrew, Italian, Latin, Spanish)

- 70-85 multiple choice questions (depending on language)
- Four answer choices
- French and Spanish: Offered in August, October, December, January, May, and June
- German, Modern Hebrew, and Italian: Offered in June only
- Latin: Offered in December and June

## General Material Covered

Language	Number of Questions	Content and Approximate % of Test
French	85 Questions	vocabulary in context 30%, structure 30-40 %, reading comprehension 30-40%
German	85 Questions	vocabulary in context and structure in context (grammar) 50%, reading comprehension 50%
Modern Hebrew	85 Questions	vocabulary in context 30%, structure in context (grammar) 30%, reading comprehension 40%
Italian	80-85 Questions	vocabulary in context 30%, structure in context (grammar) 30%, reading comprehension 40%
Latin	70-75 Questions	grammar and syntax 30%, derivatives 5%, translation and reading comprehension 65%
Spanish	85 Questions	vocabulary and structure 33%, paragraph completion 33%, reading comprehension 33%

# SAT Subject Test: Language With Listening



**The Details: Six Different Languages (Chinese, French, German, Korean, Japanese, Spanish)**

- 80-90 multiple choice questions (depending on language)
- Four answer choices
- Students must bring an acceptable CD player with earphones
- Only offered in November

## General Material Covered

Topic	Percent Covered	Details
Listening	30-40%	Long dialogues, short dialogues, pictures, rejoinders
Reading	40-60%	Reading comprehension, vocabulary, grammar, structure, usage, paragraph completion



# SAT Subject Test: Literature



## Literary Concepts Covered

- Meaning, including theme, argument, and specific connotations of words
- Form, including genre, structure, and organization
- Tone, including diction, syntax, and emphasis
- Figurative language, including imagery
- Narrative voice
- Characterization

## The Details: English Literature

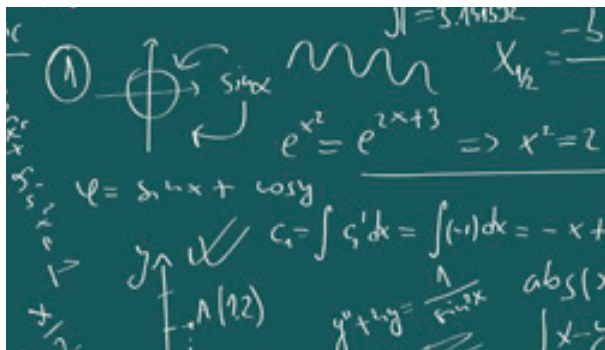
- ~60 questions from 6-8 passages and poems
- All questions are multiple choice
- Five answer choices
- Dates offered: All SAT dates except March

## General Material Covered

Passage Types	Percent Covered
Prose	40-50%
Poetry	40-50%
Drama	0-10%

Content Time Period	Percent Covered
Renaissance and 17th century	30%
18th and 19th century	30%
20th century	40%

# SAT Subject Test: Math Level 1



## The Details: Math Level 1

- 50 multiple choice questions
- Five answer choices
- Difficulty increases as you move forward in the test
- Certain graphing calculators are allowed (necessary for approximately 55% of questions)
- Dates offered: All SAT dates except March

## General Material Covered

Topic	Percent Covered	Details
Numbers and operations	10-14%	Operations, ratio and proportion, complex numbers, counting, elementary number theory, matrices, and sequences
Algebra and functions	38-42%	Expressions, equations, inequalities, representation and modeling, and properties of functions (linear, polynomial, rational, and exponential)
Geometry and Measurement	38-42%	Lines, parabolas, circles, solids (surface area and volume), right triangles, and identities
Data analysis, statistics, and probability	8-12%	Mean, median, mode, range, interquartile range, graphs and plots, least-squares regression (linear and exponential), and probability





# SAT Subject Test: Physics

**Question Types: Physics**

- Part A (10-15 questions): Classification: Groups of 5 options followed by 3-5 questions where you must choose from those answers
- Part B (60-65 questions): Standard multiple choice questions

**The Details: Physics**

- 75 multiple choice questions
- Five answer choices
- Calculators are NOT allowed
- Dates offered: All SAT dates except March

## General Material Covered

Topic	Percent Covered	Details
Mechanics	36-42%	Kinematics, dynamics, energy and momentum, circular motion, simple harmonic motion, gravity
Electricity and magnetism	18-24%	Electric fields, forces and potentials, capacitance, circuit elements and DC Circuits, magnetism
Waves and optics	15-19%	General wave properties, reflection and refraction, ray optics, physical optics
Heat and thermodynamics	6-11%	Thermal properties, laws of thermodynamics
Modern physics	6-11%	Quantum phenomena, atomic, nuclear physics, relativity
Miscellaneous	4-9%	General, analytical skills, new topics in physics

# SAT Subject Test: U.S. History



**Question Content: U.S. History**

- Geography and maps
- Interpreting political cartoons
- Fact recall

**The Details: U.S. History**

- 90 multiple choice questions
- Five answer choices
- Questions are not in chronological order
- Dates offered: All SAT dates except March

**General Material Covered**

Period Breakdown	Percent Covered
Pre-Columbian history to 1789	20%
1790 to 1898	40%
1899 to present	40%

Topic Content	Percent Covered
Political history	31-35%
Economic history	13-17%
Social history	20-24%
Intellectual and cultural history	13-17%
Foreign policy	13-17%

# SAT Subject Test: World History



## Question Content: World History

- Geography and maps
- Interpreting artistic materials
- Fact recall

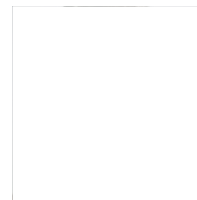
## The Details: World History

- 95 multiple choice questions
- Five answer choices
- Questions are not in chronological order
- Dates offered: August, December, and June SAT dates

## General Material Covered

Period Breakdown	Percent Covered
Prehistory to 500 C.E.	25%
500-1500 C.E.	20%
1500-1900 C.E.	25%
After 1900 C.E.	20%
Cross-chronological	10%

Geographical Area Covered	Percent Covered
Global or comparative	25%
Europe	25%
Africa	10%
Southwest Asia	10%
South and Southeast Asia	10%
East Asia	10%
The Americas (excluding the United States)	10%



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SAT SUBJECT TEST OFFERINGS

## Why take the SAT Subject Tests?

SAT Subject Tests can influence college applications:

- Some universities recommend or require SAT Subject Tests. See an entire listing at: <https://collegereadiness.collegeboard.org/sat-subject-tests/about/institutions-using>
- SAT Subject Tests are rigorous assessments that help students stand out in the college admissions process by showcasing academic strengths and interests.
- Students can fulfill basic college requirements and earn credit for introductory college courses with solid scores.

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Mathematics 1 & 2	U.S. History
Physics	World History



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