

SAT math syllabus: the four domains, every topic, with weights

The digital SAT math section as the College Board defines it. Tick a topic when the student gets the 'hard' question-bank questions on it right.

Domain and weight	Topic	Course	Done
ALGEBRA about 35% (13 to 15 questions)	Linear equations in one variable	Algebra 1	[]
	Linear equations in two variables	Algebra 1	[]
	Linear functions	Algebra 1	[]
	Systems of two linear equations	Algebra 1	[]
	Linear inequalities in one or two variables	Algebra 1	[]
ADVANCED MATH about 35% (13 to 15)	Equivalent expressions (factoring, exponents, radicals, rational)	Algebra 1-2	[]
	Nonlinear equations in one variable; systems with one nonlinear equation	Algebra 2	[]
	Nonlinear functions: quadratic, exponential, polynomial, rational, absolute value	Algebra 2	[]
PROBLEM-SOLVING AND DATA ANALYSIS about 15% (5 to 7)	Ratios, rates, proportional relationships, units	Grade 6-7	[]
	Percentages	Grade 7	[]
	One-variable data: distributions, centre and spread	Algebra 1-2	[]
	Two-variable data: models and scatterplots	Algebra 1	[]
	Probability and conditional probability	Geometry / Alg 2	[]
	Inference from sample statistics; margin of error	Algebra 2 / Stats	[]
	Evaluating statistical claims: studies and experiments	Algebra 2 / Stats	[]
	Area and volume	Geometry	[]
GEOMETRY AND TRIGONOMETRY about 15% (5 to 7)	Lines, angles and triangles	Geometry	[]
	Right triangles and trigonometry; radians	Geometry	[]
	Circles, including the equation of a circle	Geometry / Alg 2	[]

Not on the test

Calculus; logarithms beyond recognition; matrices and vectors; sequence formulas; complex numbers; conics other than circles; proofs; the laws of sines and cosines; hypothesis tests and regression formulas.

The format, and the twelve-week plan

Questions	44, in two modules of 22
Time	70 minutes: 35 per module, about 95 seconds a question
Adaptive	Module 2 is harder or easier depending on module 1
Types	About 75% multiple choice, 25% student-produced response
Calculator	Allowed throughout; Desmos built in
Context	About 30% word problems
Score	200 to 800; college-ready benchmark 530
Given	Area, volume and special-triangle formulas on screen

Twelve weeks

Weeks	Do	Done
1	A full timed Bluebook practice test; list every wrong question by domain	[]
2 to 4	Algebra: linear equations, functions, systems, inequalities; ten question-bank questions a day, wrong ones redone next day	[]
5 to 8	Advanced Math: quadratics (factoring, vertex form, discriminant), then exponentials, then rational and radical; the biggest point gain	[]
9	Problem-solving and data: percentages and ratios one day, statistics and data three days	[]
10	Geometry and trigonometry: the reference sheet, special right triangles, circles and completing the square	[]
11	Two timed sections; Desmos practice: graph both sides, intersections, zeros, regression	[]
12	A full practice test; redo the week 1 wrong list; the ones missed twice go to a tutor	[]

Score log

Date	Test	Module 2 hard?	Raw right / 44	Score	Weakest domain

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