Get 800 SAT Math Syllabus

This is the official syllabus for Get 800’s targeted SAT math prep classes. Each student’s latest PSAT or SAT math score is used to determine placement. There are three possible starting points (beginner, intermediate, advanced). The image to the right gives an outline of how to use Get 800 course materials. Click on the image, and then scroll down to see an enlarged version. Each book can be completed in 1 to 1.5 months. Therefore, a typical 3-month course can cover the content of two books.

PSAT/SAT Score Less Than 500

Text Used: 28 New SAT Math Lessons – Beginner Course

1. Overview of the SAT Math Sections
2. SAT Math Tips (“checking” answers properly, guessing, pacing)
3. Attempting the Right Number of Questions
4. Start with Choice (B) or (C)
5. Informal and Formal Algebra
6. Triangles (classification by angle and by side length)
7. Quadrilaterals (perimeter and area of rectangles)
8. Functions (equations and tables)
9. Average (arithmetic mean) and Median
10. Changing Averages to Sums
11. When NOT to Start with Choice (B) or (C)
12. Circles (radius, diameter, circumference)
13. Cylinders (volume)
14. Graphs of Functions (intercepts, vertical line test)
15. Simple Probability Principle
16. Conditional Probability with Tables
17. Taking Guesses
18. Using Measurement in Figures That Are Drawn to Scale
19. Drawing Your Own Figures
20. Graphs of Functions (comparative relationships, points of intersection)
21. Scatterplots (line of best fit, and scatterplot classification)
22. Bar Graphs, Line Graphs, Circle Graphs, and Histograms
23. Picking Numbers
24. Isolating a Variable in an Equation
25. Slope
26. Equations of Lines in Slope-Intercept Form
27. Plugging in Points
28. Distributive Property
29. Factoring
30. Advanced Factoring (difference of two squares, trinomial)
31. Percent Change
32. Setting Up a Ratio
33. Changing Fractions to Decimals
34. Trying Simple Operations to Solve for Complex Algebraic Expressions (addition, subtraction)
35. Recognizing Blocks
36. Pythagorean Theorem
37. Basic Right Triangle Trigonometry (sin, cos, tan)
38. Cofunction Identities
39. Addition and Subtraction of Polynomials
40. Multiplication of Polynomials (nonstandard method)
41. Review of Mean, Median, Mode
42. Standard Deviation Basics
43. Margin of Error and Population Analysis
44. Complex Numbers (addition, subtraction, multiplication, conjugation, and division)
45. Parallel Lines Cut by a Transversal
46. Similarity
47. Square Root Property
48. Solving Quadratic Equations (guessing, factoring, quadratic formula, graphically)
49. Sum and Product of Roots of a Quadratic Function
50. Miscellaneous Problem Solving Questions
51. Heart of Algebra Review
52. Geometry and Trig Review
53. Passport to Advanced Math Review
54. Problem Solving and Data Analysis Review
55. Take a College Board Practice Test

Math Score \geq 500: \text{Begin next part of syllabus (PSAT/SAT Score Between 500 and 600)}
Math Score < 500: \text{Work on Level 1, 2, and 3 Problems from 320 SAT Math Lessons}
PSAT/SAT Score Between 500 and 600

Text Used: *28 New SAT Math Lessons – Intermediate Course*

1. Overview of the SAT Math Sections
2. SAT Math Tips (“checking” answers properly, guessing, pacing)
3. Attempting the Right Number of Questions
4. Plugging in Answer Choices
5. Informal and Formal Algebra Review (as needed)
6. Basic Geometry (perimeter and area of a rectangle, circumference of a circle, volume of a cylinder)
7. Functions (equations and tables)
8. Average (arithmetic mean)
9. Changing Averages to Sums
10. Taking Guesses
11. Distributive Property
12. Addition and Subtraction of Polynomials
13. Multiplication of Polynomials (nonstandard method)
14. Simple Probability Principle
15. Conditional Probability with Tables
16. Picking Numbers
17. Plugging in Points
18. Slope
19. Equations of Lines in Slope-Intercept Form
20. Graphs of Functions (intercepts, zeros, comparative relationships, vertical line test)
21. Picking Numbers in Percent Problems
22. Percent Change
23. Trying Simple Operations to Solve for Complex Algebraic Expressions (addition, subtraction, multiplication, division)
24. Using Measurement in Figures That Are Drawn to Scale
25. Drawing Your Own Figures
26. Parallel Lines Cut by a Transversal
27. Similarity
28. Area of a Triangle
29. Right Triangle Basics
30. Review of Basic Strategies with Passport to Advanced Math Problems (plugging in, taking guesses, and picking numbers)
31. Review of Average Problems, Margin of Error and Population Analysis
32. Basics of Standard Deviation
33. Complex Numbers (addition, subtraction, multiplication, conjugation, and division)
34. Pythagorean Theorem
35. Basic Right Triangle Trigonometry (sin, cos, tan)
36. Special Right Triangles (45-45-90, 30-60-90)
37. Factoring (gcd, difference of two squares, trinomial)
38. Square Root Property
39. Completing the Square
40. Solving Quadratic Equations (guessing, factoring, quadratic formula, completing the square, graphically)
41. Scatterplots (line of best fit, and scatterplot classification)
42. Bar Graphs, Line Graphs, Circle Graphs, and Histograms
43. Isolating a Variable in an Equation
44. Interpreting Algebraic Expressions
45. Setting Up Algebraic Expressions
46. The Measure of an Exterior Angle to a Triangle is the Sum of the Measures of the Two Opposite Interior Angles of the Triangle
47. Move the Sides of a Figure Around
48. Triangle Rule
49. Quadratic Functions (Standard and General Form)
50. Sum and Product of Roots of a Quadratic Function
51. Miscellaneous Problem Solving Questions
52. Heart of Algebra Review
53. Geometry and Trig Review
54. Passport to Advanced Math Review
55. Problem Solving and Data Analysis Review
56. Take a College Board Practice Test
   Math Score \( \geq 600 \): Begin next part of syllabus (PSAT/SAT Score Greater Than 600)
   Math Score < 600: Work on Level 3 and 4 Problems from 320 SAT Math Lessons
PSAT/SAT Score Greater Than 600

Text Used: 28 New SAT Math Lessons – Advanced Course

1. Review of Basic Strategies (plugging in, taking guesses, picking numbers)
2. Slope
3. Equations of Lines (slope-intercept and point-slope forms)
4. Plugging in Points
5. Direct and Inverse Variation
6. Functions (equations and tables)
7. Average (arithmetic mean)
8. Changing Averages to Sums
9. Trying Simple Operations to Solve for Complex Algebraic Expressions (addition, subtraction, multiplication, division)
10. Solving Linear Systems (elimination, Guass-Jordan reduction using calculator, substitution, graphical solution)
11. Equations of Lines in General Form (3 cases – unique solution, no solution, infinitely many solutions)
12. Triangle Rule
13. Pythagorean Theorem and its Converse
14. Generalized Pythagorean Theorem
15. Graphs of Functions (intercepts, zeros, comparative relationships, asymptotic behavior)
16. Even and Odd Functions
17. “Distance = Rate \cdot Times” Charts
18. Xiggi’s Formula (aka harmonic mean formula)
19. Picking Numbers in Percent Problems
20. Percent Change
21. Complex Numbers (powers of $i$, addition, subtraction, multiplication, conjugation, and division)
22. Systems of Linear Inequalities
23. Right Triangle Trigonometry (sin, cos, tan, csc, sec, cot)
24. Special Right Triangles (45-45-90, 30-60-90)
25. Trigonometric Identities (quotient, negative, cofunction, pythagorean)
26. Radian Measure
27. Quadratic Functions (Standard and General Form)
28. Sum and Product of Roots of a Quadratic Function
29. Basic Transformations
30. Simple Probability Principle
31. Conditional Probability with Tables
32. Laws of Exponents
33. Similarity
34. The Measure of an Exterior Angle to a Triangle is the Sum of the Measures of the Two Opposite Interior Angles of the Triangle
35. Parallel Lines Cut by a Transversal
36. Angles of Regular Polygons
37. Distributive Property
38. Factoring (gcd, difference of two squares, trinomial)
39. Square Root Property
40. Completing the Square
41. Solving Quadratic Equations (guessing, factoring, quadratic formula, completing the square, graphically)
42. Equations of Circles (standard and general forms)
43. Scatterplots (line of best fit, and scatterplot classification)
44. Bar Graphs, Line Graphs, Circle Graphs, and Histograms
45. Absolute Value
46. Advanced Relationships in Circles (arc length and areas of sectors)
47. Addition and Subtraction of Polynomials
48. Multiplication of Polynomials (nonstandard method)
49. Factor and Remainder Theorems
50. Fence-post Formula
51. Statistics Review (mean, median, standard deviation, margin of error, population analysis)
52. Setting Up Algebraic Expressions
53. Interpreting Algebraic Expressions
54. Isolating a Variable in an Equation
55. Move the Sides of a Figure Around
56. Areas of Shaded Regions
57. Fitting Geometric Objects Inside Another Object
58. Open a Cylinder to Get a Rectangle
59. Surface Area of a Rectangular Solid
60. Nonlinear Systems of Equations
61. Exponential Growth and Decay
62. Synthetic Division
63. Miscellaneous Problem Solving Questions
64. Heart of Algebra Review
65. Geometry and Trig Review
66. Passport to Advanced Math Review
67. Problem Solving and Data Analysis Review
68. Take a College Board Practice Test

If needed, continue to practice Level 4 and 5 questions from 320 SAT Math Lessons and New SAT Math Lessons
Dr. Steve Warner earned his Ph.D. at Rutgers University in Mathematics, and he currently works as an Associate Professor at Hofstra University. Dr. Warner has been tutoring general mathematics since 1990, and he has been tutoring mathematics for standardized tests since 1999.

In 2012, Dr. Warner founded Get 800, where he used the feedback from thousands of students to develop a unique system that can be used by anyone to drastically improve his or her math score on standardized tests in a very short period.

Dr. Warner's philosophy is quite different from most experts in that he focuses on test specific strategy designed to save time, avoid carelessness, and exploit the weaknesses of standardized tests, as opposed to spending valuable time on conventional teaching methods.

The targeted approach to test prep that Dr. Warner employs yields incredible score increases with a minimum amount of effort. Dr. Warner realizes that students at different score levels must be taught differently and this is reflected very strongly in his materials.

View Dr. Steve Warner's C.V./Resume

CONNECT WITH DR. STEVE WARNER

[Links to social media platforms]
BOOKS FROM THE GET 800 COLLECTION

- **320 SAT MATH PROBLEMS**
  - Second Edition, arranged by Topic and Difficulty Level
  - By Dr. Steve Warner

- **NEW SAT MATH PROBLEMS**
  - Second Edition, arranged by Topic and Difficulty Level
  - By Dr. Steve Warner

- **SAT Prep Math Survival Guide**
  - By Dr. Steve Warner

- **28 NEW SAT MATH LESSONS**
  - to Improve Your Score in One Month
  - By Dr. Steve Warner

- **28 NEW SAT MATH LESSONS**
  - to Improve Your Score in One Month
  - By Dr. Steve Warner

- **320 SAT CHEMISTRY SUBJECT TEST PROBLEMS**
  - By Christopher Buza and Dr. Steve Warner

- **320 ACT MATH PROBLEMS**
  - Second Edition, arranged by Topic and Difficulty Level
  - By Dr. Steve Warner

- **28 ACT MATH LESSONS**
  - to Improve Your Score in One Month
  - By Dr. Steve Warner

- **320 SAT MATH SUBJECT TEST PROBLEMS**
  - Advanced Course, arranged by Topic and Difficulty Level
  - By Dr. Steve Warner

- **LEVEL 1**
  - 320 SAT MATH SUBJECT TEST PROBLEMS
  - Level 1: 1,150+ Practice Problems
  - By Dr. Steve Warner

- **LEVEL 2**
  - 320 SAT MATH SUBJECT TEST PROBLEMS
  - Level 2: 1,400+ Practice Problems
  - By Dr. Steve Warner

- **320 AP CALCULUS AB PROBLEMS**
  - Second Edition, arranged by Topic and Difficulty Level
  - By Dr. Steve Warner

- **320 AP CALCULUS BC PROBLEMS**
  - Second Edition, arranged by Topic and Difficulty Level
  - By Dr. Steve Warner

- **PHYSICS MASTERY**
  - For Advanced High School Students
  - By Dr. Steve Warner

- **320 GRE MATH PROBLEMS**
  - Second Edition, arranged by Topic and Difficulty Level
  - By Dr. Steve Warner