

Math 7CP to Algebra 1 Boost Camp Resource List

Students unable to attend the Boost Camp are welcome to study on their own to prepare for the Boost Camp exam (to be taken at your school). Students must score at least a 70% on the exam to be enrolled in Algebra 1CP in the fall.

The curriculum that will be covered in Boost Camp is shown in the table below along with the corresponding chapter and sections from the 7th grade accelerated textbook (Advanced 2). Resources through Khan Academy are provided below to support students in studying for the exam.

Topic	Chapter & Section	Khan Academy Topics & Links
Equations	Sections 1.1 to 1.3	<p>Two-step equations with decimals and fractions https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-variables-expressions#cc-8th-two-step-equations-dec-frac</p> <p>Equations with variables on both sides https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-solving-equations#variables-on-both-sides</p> <p>Equations with parentheses https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-solving-equations#equations-with-parentheses</p> <p>Number of solutions to equations https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-solving-equations#number-of-solutions-to-linear-equations</p>
Transformations	Sections 2.1 to 2.5 and 2.7	<p>Translations https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-geometry#translations-8th</p> <p>Rotations https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-geometry#rotations-8th</p> <p>Reflections https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-geometry#reflections-8th</p> <p>Congruence and similarity https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-geometry#congruence-similarity</p>
Angles and Triangles	Sections 3.1 to 3.4	<p>Angles between intersecting lines https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-geometry#cc-8th-angles-between-lines</p> <p>Triangle angles https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-geometry#cc-8th-triangle-angles</p>
Graphing and Writing Linear Equations	Sections 4.1 to 4.7	<p>Solutions to 2-variable equations https://www.khanacademy.org/math/algebra/two-var-linear-equations/modal/e/plugging_in_values</p> <p>Complete solutions to 2-variable equations https://www.khanacademy.org/math/algebra/two-var-linear-equations/modal/e/graphing-solutions-to-two-variable-linear-equations</p> <p>Intercepts from a graph https://www.khanacademy.org/math/algebra/two-var-linear-equations/modal/e/linear-function-intercepts</p> <p>Intercepts from an equation https://www.khanacademy.org/math/algebra/two-var-linear-equations/modal/e/solving_for_the_x-intercept</p> <p>Slope from a graph https://www.khanacademy.org/math/algebra/two-var-linear-equations/modal/e/slope-from-a-graph</p> <p>Slope from two points https://www.khanacademy.org/math/algebra/two-var-linear-equations/modal/e/slope-from-two-points</p>

		<p>Horizontal and vertical lines https://www.khanacademy.org/math/algebra/two-var-linear-equations/modal/e/horizontal-and-vertical-lines</p> <p>Slope-intercept intro https://www.khanacademy.org/math/algebra/two-var-linear-equations/modal/e/slope-from-an-equation-in-slope-intercept-form</p> <p>Graph from slope-intercept form https://www.khanacademy.org/math/algebra/two-var-linear-equations/modal/e/graph-from-slope-intercept-equation</p> <p>Slope-intercept equation from graph https://www.khanacademy.org/math/algebra/two-var-linear-equations/modal/e/slope-intercept-equation-from-graph</p> <p>Slope-intercept from two points https://www.khanacademy.org/math/algebra/two-var-linear-equations/modal/e/slope-intercept-equation-from-two-points</p>
Real Numbers and Pythagorean Theorem	Sections 7.1 to 7.4	<p>Square roots & cube roots https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-numbers-operations#cc-8th-roots</p> <p>The Pythagorean theorem https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-geometry#cc-8th-pythagorean-theorem</p>
Volume and Similar Solids	Sections 8.1 to 8.3	<p>Volume https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-geometry#cc-8th-volume</p> <p>Surface area https://www.khanacademy.org/math/basic-geo/basic-geo-volume-sa#basic-geometry-surface-area</p>
Data Analysis and Displays	Sections 9.1 & 9.3	<p>Introduction to scatterplots https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-data#cc-8th-scatter-plots</p> <p>Interpreting scatterplots https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-data#cc-8th-interpreting-scatter-plots</p> <p>Two-way tables https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-data#two-way-tables</p>
Exponents	Sections 10.1, and 10.3 to 10.7	<p>Exponent properties intro https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-numbers-operations#cc-8th-exponent-properties</p> <p>Negative exponents https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-numbers-operations#cc-8th-pos-neg-exponents</p> <p>Exponent properties (integer exponents) https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-numbers-operations#cc-8th-exp-prop-integers</p> <p>Working with powers of 10 https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-numbers-operations#cc-8th-orders-of-magnitude</p> <p>Scientific notation intro https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-numbers-operations#cc-8th-scientific-notation</p> <p>Arithmetic with numbers in scientific notation https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-numbers-operations#cc-8th-scientific-notation-compu</p>