



MATHEMATICS CURRICULUM MAP

GRADE 7 Algebra I

Geometry Pathway

June 2024

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Grade 7 Algebra: Year at a Glance

Resource: *Big Ideas Math Algebra 1: A Common Core Curriculum* (ISBN: 9781642087178)

Semester 1	Standards	Big Ideas
Solving Linear Equations	A.CED.1, A.CED.4, A.REI.1, and A.REI.3	Chapter 1
Solving Linear Inequalities	A.REI.3 and A.CED.1	Chapter 2
Functions and Graphing Linear Relationships	F.IF.1, A.CED.2, A.REI.10, F.IF.5, F.IF.7a, F.LE.1b, F.IF.2, F.IF.9, F.IF.4, F.LE.5, F.BF.3, and F.IF.7b	Chapter 3
Writing Linear Functions	A.CED.2, F.LE.1b, F.LE.2, F.LE.5, S.ID.6a, S.ID.6b, S.ID.6c, S.ID.7, S.ID.8, S.ID.9, F.IF.3, F.BF.1a, and F.BF.2, A.REI.10, F.IF.7b	Chapter 4
Systems of Equations and Inequalities	A.CED.3, A.REI.6, A.REI.5, A.REI.11, and A.REI.12	Chapter 5
Exponential Functions	N.RN.2, N.RN.1, A.CED.2, F.IF.4, F.IF.7e*, F.IF.9, F.BF.1a, F.BF.3, F.LE.1a, F.LE.2, A.SSE.3c, F.IF.8b, F.LE.1c, A.CED.1, A.REI.1, A.REI.11, F.IF.3, and F.BF.2	Chapter 6
Semester 2	Standards	Big Ideas
Exponential Functions Cont.		
Polynomials and Factoring	A.APR.1, A.APR.3, A.REI.4b, A.SSE.2, A.SSE.3a, and A.SSE.1a	Chapter 7
Graphing Quadratic Functions	A.CED.2, F.IF.7a, F.BF.3, F.IF.9, F.IF.4, A.SSE.3a, F.IF.8a, F.IF.6, F.LE.3	Chapter 8

Solving Quadratic Equations	N.RN.2, N.RN.3, A.REI.11, F.IF.7a, A.CED.1, A.REI.4b, A.SSE.3b, A.REI.4a, F.IF.8a, A.REI.7	Chapter 9
Radicals, Expressions and Equations	A.CED.2, F.IF.4, F.IF.6, F.IF.7b, F.IF.9, A.CED.1, F.BF.4a, A.REI.2	Chapter 10
Statistics	S.ID.3, S.ID.1, S.ID.2, and S.ID.5	Chapter 11
<p>Priority Standards: Not all content in a given grade is emphasized equally in the Standards. Some clusters require greater emphasis than others based on the depth of the ideas, the time that they take to master, and/or their importance to future mathematics or the demands of college and career readiness. More time in these areas is necessary. These standards are taught in-depth to full mastery.</p> <p>Supporting vs. Additional: Supporting standards (highlighted in blue) are designed to strengthen the areas of major emphasis. Connections are clear and emphasize coherence between topics. Additional standards (highlighted in yellow) do not connect as tightly as supporting standards.</p> <p>Light purple signifies that the standard is traditionally taught in Algebra 2. These standards may be taught for exposure to students in this pathway. It would only be assessed for mastery when students demonstrate readiness.</p>		