

Accelerated Algebra I/Geometry A Teaching & Learning Framework

Semester 1					Semester 2			
Unit 1 2 weeks	Unit 2 3 weeks	Unit 3 5 weeks	Unit 4 4 weeks	Unit 5 4 weeks	Unit 6 3 weeks	Unit 7 2 weeks	Unit 8 9 weeks	Unit 9 4 weeks
Relationships Between Quantities & Expressions	Reasoning with Linear Equations & Inequalities	Modeling & Analyzing Quadratic Functions	Modeling & Analyzing Exponential Functions	Comparing & Contrasting Functions	Describing Data	Transformations in the Coordinate Plane	Similarity, Congruence & Proofs	Right Triangle Trigonometry Review & Extend
<p>MGSE9-12.N.RN.2-3 (Properties of rational & irrational numbers)</p> <p>MGSE9-12.N.Q.1-3 (Reason quantitatively & use units to solve problems)</p> <p>MGSE9-12.A.SSE.1 (Interpret expressions in context)</p> <p>MGSE9-12.A.SSE.1a-b (Interpret formulas & expressions in context)</p> <p>MGSE9-12.A.APR.1 (Add, subtract & multiply polynomials)</p>	<p>MGSE9-12.A.CED.1-4 (Create equations that describe numbers or relationships)</p> <p>MGSE9-12.A.REI.1,3,5 (Solve equations & inequalities 1-2 variable)</p> <p>MGSE9-12.A.REI.6 (Solve systems)</p> <p>MGSE9-12.A.REI.10-12 (Solve equations & inequalities 2 variables)</p> <p>MGSE9-12.F.BF.1 (Write a function)</p> <p>MGSE9-12.F.BF.1a,2 (Arithmetic & geometric sequences)</p> <p>MGSE9-12.F.IF.1 (Input vs. output)</p> <p>MGSE9-12.F.IF.2 (Function notation)</p> <p>MGSE9-12.F.IF.3-4 (Sequences & characteristics)</p> <p>MGSE9-12.F.IF.5-6 (Rate of change)</p> <p>MGSE9-12.F.IF.7,7a,9 (Analyze functions)</p>	<p>MGSE9-12.A.SSE.2 (Interpret the structure of expressions)</p> <p>MGSE9-12.A.SSE.3,3a-b (Equivalent forms of expressions)</p> <p>MGSE9-12.A.CED.1-2,4 (Create equations that describe numbers or relationships)</p> <p>MGSE9-12.A.REI.1 (Justify how to solve an equation)</p> <p>MGSE9-12.A.REI.4,4a-b (Methods of solving quadratics)</p> <p>MGSE9-12.F.BF.1,3 (Write a function & build new functions)</p> <p>MGSE9-12.F.IF.1 (Input vs. output)</p> <p>MGSE9-12.F.IF.2 (Function notation)</p> <p>MGSE9-12.F.IF.3-4 (Sequences & characteristics)</p> <p>MGSE9-12.F.IF.5-6 (Rate of change)</p> <p>MGSE9-12.F.IF.7,7a (Graph functions)</p> <p>MGSE9-12.F.IF.8 (Write a function)</p> <p>MGSE9-12.F.IF.8a,9 (Compare & contrast functions)</p>	<p>MGSE9-12.A.CED.1-2 (Create equations 1-2 variables)</p> <p>MGSE9-12.A.REI.1 (Justify how to solve an equation)</p> <p>MGSE9-12.F.BF.1 (Write a function)</p> <p>MGSE9-12.F.BF.1a,2 (Arithmetic & geometric sequences)</p> <p>MGSE9-12.F.BF.3 (Build new functions)</p> <p>MGSE9-12.F.IF.1 (Input vs. output)</p> <p>MGSE9-12.F.IF.2 (Function notation)</p> <p>MGSE9-12.F.IF.3-4 (Sequences & characteristics)</p> <p>MGSE9-12.F.IF.5-6 (Rate of change)</p> <p>MGSE9-12.F.IF.7,7e (Graph functions)</p> <p>MGSE9-12.F.IF.9 (Compare functions)</p>	<p>MGSE9-12.F.LE.1 (Linear vs exponential)</p> <p>MGSE9-12.F.LE.1a (Growth of functions)</p> <p>MGSE9-12.F.LE.1b,c,2-3 (Changes in rate and relating to context)</p> <p>MGSE9-12.F.LE.5 (Interpret parameters)</p> <p>MGSE9-12.F.BF.3 (Build new functions)</p> <p>MGSE9-12.F.IF.1 (Input vs. output)</p> <p>MGSE9-12.F.IF.2 (Function notation)</p> <p>MGSE9-12.F.IF.4 (Characteristics)</p> <p>MGSE9-12.F.IF.5-6 (Rate of change)</p> <p>MGSE9-12.F.IF.7 (Graph functions)</p> <p>MGSE9-12.F.IF.9 (Compare functions)</p>	<p>MGSE9-12.S.ID.1 (Dot plots, histograms & box plots)</p> <p>MGSE9-12.S.ID.2 (Compare data distribution)</p> <p>MGSE9-12.S.ID.3 (Shape, center & spread)</p> <p>MGSE9-12.S.ID.5-6 (Bivariate data)</p> <p>MGSE9-12.S.ID.6a,c (Function of best fit)</p> <p>MGSE9-12.S.ID.7-9 (Slope, correlation coefficient, causation & correlation)</p>	<p>MGSE9-12.G.CO.1 (Precise definitions)</p> <p>MGSE9-12.G.CO.2 (Coordinate plane)</p> <p>MGSE9-12.G.CO.3 (Figures with rotations & reflections upon itself)</p> <p>MGSE9-12.G.CO.4 (Definitions of transformations)</p> <p>MGSE9-12.G.CO.5 (Transforming figures)</p>	<p>MGSE9-12.G.SRT.1-2 (Dilations & similarity)</p> <p>MGSE9-12.G.SRT.3 (AA criterion)</p> <p>MGSE9-12.G.SRT.4 (Prove theorems about triangles)</p> <p>MGSE9-12.G.SRT.5 (Congruence & similarity)</p> <p>MGSE9-12.G.CO.6-7 (Congruence & rigid motions)</p> <p>MGSE9-12.G.CO.8 (Triangle congruence)</p> <p>MGSE9-12.G.CO.9-11 (Prove geometric theorems)</p> <p>MGSE9-12.G.CO.12 (Geometric constructions)</p> <p>MGSE9-12.G.CO.13 (Construct regular polygons inscribed in a circle)</p>	<p>MGSE9-12.G.SRT.6 (Trigonometric ratios)</p> <p>MGSE9-12.G.SRT.7 (Sine & cosine of complementary angles)</p> <p>MGSE9-12.G.SRT.8 (Trigonometric ratios & Pythagorean Theorem)</p> <p>Review: All standards by differentiating for student needs</p> <p>Extend: MGSE9-12.G.C.1-2 (Similar circles; radii, chords, tangents & secants with inscribed angles)</p>

These units were written to build upon concepts from prior units, so later units contain tasks that depend upon the concepts addressed in earlier units.
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Cobb County School District

NOTE: Mathematical standards are interwoven and should be addressed throughout the year in as many different units and tasks as possible in order to stress the natural connections that exist among mathematical topics.

Grades 9-12 Key: Algebra Strand: SSE = Seeing Structure in Expressions, APR = Arithmetic with Polynomial and Rational Expressions, CED = Creating Equations, REI = Reasoning with Equations and Inequalities

Functions Strand: IF = Interpreting Functions, LE = Linear and Exponential Models, BF = Building Functions, TF = Trigonometric Functions

Geometry Strand: CO = Congruence, SRT = Similarity, Right Triangles, and Trigonometry, C = Circles, GPE = Expressing Geometric Properties with Equations, GMD = Geometric Measurement and Dimension,
MG = Modeling with Geometry

Statistics and Probability Strand: ID = Interpreting Categorical and Quantitative Data, IC = Making Inferences and Justifying Conclusions, CP = Conditional Probability and the Rules of Probability, MD = Using Probability to Make Decisions

Accelerated Algebra I/Geometry A Teaching & Learning Framework

Block Schedule

Unit 1 1 weeks	Unit 2 1.5 weeks	Unit 3 2.5 weeks	Unit 4 2 weeks	Unit 5 2 weeks	Unit 6 1.5 weeks	Unit 7 1 weeks	Unit 8 4.5 weeks	Unit 9 2 weeks
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