Cobb County School District

Geometry Teaching & Learning Framework

Block Schedule

Unit 1 1.5 weeks	Unit 2 5.5 weeks	Unit 3 2 weeks	Unit 4 3.5 weeks	Unit 5 2.5 weeks	Unit 6 3 weeks
Transforma-tions in the Coordinate Plane	Similarity, Congruence & Proofs	Right Triangle Trigonometry	Circles & Volume	Geometric & Algebraic Connections	Applications of Probability Review & Extend
MGSE9-12.G.CO.1 (Precise definitions) **MGSE9-12.G.CO.2** (Coordinate plane) **MGSE9-12.G.CO.3** (Figures with rotations & reflections upon itself) **MGSE9-12.G.CO.4** (Definitions of transformations) **MGSE9-12.G.CO.5** (Transforming figures)	**MGSE9-12.G.SRT.1-2** (Dilations & similarity) **MGSE9-12.G.SRT.3** (AA criterion) **MGSE9-12.G.SRT.4** (Prove theorems about triangles) **MGSE9-12.G.SRT.5** (Congruence & similarity) **MGSE9-12.G.CO.6-7** (Congruence & rigid motions) **MGSE9-12.G.CO.8** (Triangle congruence) **MGSE9-12.G.CO.9-11** (Prove geometric theorems) **MGSE9-12.G.CO.12** (Geometric constructions) **MGSE9-12.G.CO.13** (Construct regular polygons inscribed in a circle)	**MGSE9-12.G.SRT.6** (Trigonometric ratios) **MGSE9-12.G.SRT.7** (Sine & cosine of complementary angles) **MGSE9-12.G.SRT.8** (Trigonometric ratios & Pythagorean Theorem)	**MGSE9-12.G.C.1-2** (Similar circles; radii, chords, tangents & secants with inscribed, central & circumscribed angles) **MGSE9-12.G.C.3-5** (Constructing inscribed & circumscribed circles; construct a tangent line; derive arc lengths) **MGSE9-12.G.GMD.1** (Informal arguments for geometric formulas) **MGSE9-12.G.GMD.2-4** (Cavalieri's principle; volume; cross-sections & rotations)	**MGSE9-12.G.MG.1-3** (Describe objects; density; design problems) **MGSE9-12.G.GPE.1** (Derive the equation of a circle) **MGSE9-12.G.GPE.4** (Coordinates to prove simple geometric theorems) **MGSE9-12.G.GPE.5-7** (Prove the slope criteria; partition a line segment; compute perimeters using the distance formula)	**MGSE9-12.S.CP.1-4** (Set theory; independent probability; conditional probability; two-way tables) **MGSE9-12.S.CP.5** (Recognize & explain conditional probability) **MGSE9-12.S.CP.6-7** (Probability of compound events) **Review:** All standards by differentiating for student needs **Extend:** **MGSE9-12.N.CN.1** (Complex numbers)

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.
All units will include the Mathematical Practices and indicate skills to maintain.

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

Cobb County School District

COBB MATH

Geometry Teaching & Learning Framework					
Semester 1			Semester 2		
Unit 1 3 weeks	**Unit 2** 11 weeks	**Unit 3** 4 weeks	**Unit 4** 7 weeks	**Unit 5** 5 weeks	**Unit 6** 6 weeks
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