Cobb County School District

MATHEMATICS

Geometry Teaching & Learning Framework

Semester 1					Semester 2			
Unit 1 2 weeks	**Unit 2** 4 weeks	**Unit 3** 4 weeks	**Unit 4** 5 weeks	**Unit 5** 3 weeks	**Unit 6** 6 weeks	**Unit 7** 4 weeks	**Unit 8** 6 weeks	**Unit 9** 2 weeks
Polynomial Expressions **G.PAR.2**	**Geometric Foundations, Construction, and Proof** **G.GSR.4**	**Congruence** **G.GSR.3**	**Similarity** **G.GSR.5**	**Right Triangle Trigonometry** **G.GSR.6**	**Circles** **G.GSR.8** **G.GSR.7**	**Equations & Measurement** **G.GSR.9**	**Probability & Statistics** **G.PR.10** **G.DSR.11**	**Culminating Capstone Unit**
G.PAR.2.1 (Polynomial Expressions) **G.PAR.2.2** (Operations on polynomials) **G.PAR.2.3** (Algebraic reasoning with polynomials)	**G.GSR.4.1** (Precise Definition) **G.GSR.4.3** (Geometric Constructions) **G.GSR.4.2** (Classify Quadrilaterals) **G.GSR.4.4** (Line and Angle Theorems) **G.GSR.4.5** (Triangle Theorems)	**G.GSR.3.1** (Develop Definitions of Rotations, Reflections, Translations) **G.GSR.3.2** (Verify Experimentally) **G.GSR.3.3** (Sequence of Transformations) **G.GSR.3.4** (Congruence in terms of Rigid Motion)	**G.GSR.5.1** (Verify Dilation properties) **G.GSR.5.2** (Similarity Transformations) **G.GSR.5.3** (Similar Triangle Criteria) **G.GSR.5.4** (Formal Proofs)	**G.GSR.6.1** (Trig Ratios) **G.GSR.6.3** (Use Trig Ratios and Pythagorean Theorem to solve problems **G.GSR.6.2** (Complementary Angles Theorem)	**G.GSR.8.1** (Angle Relationships formed by chords, tangents, secants, radii) **G.GSR.8.3** (Equation of Circles) **G.GSR.8.2** (Arc Length and Sector Area) **G.GSR.7.1** (Radians) **G.GSR.7.2** (Radians and Degrees) **G.GSR.7.3** (Unit Circle and Special Right Triangles)	**G.GSR.9.1** (Volume Formulas) **G.GSR.9.2** (Describe and Approximate Volumes) **G.GSR.9.3** (Density)	**G.PR.10.1** (Set Notation Addition Rule) **G.PR.10.2** (Multiplication Rule) **G.PR.10.3** (Conditional Probability) **G.PR.10.4** (Permutations Combinations) **G.PR.10.5** (Probability Distribution and Expected Value) **G.PR.10.6** (Theoretical and Empirical Probabilities) **G.PR.10.7** (Calculate Expected Value) **G.PR.10.8** (Payoff Values) **G.DSR.11.1** (Construct and Summarize Categorical Data) **G.DSR.11.2** (Calculate and Interpret Probabilities from Two-Way Tables)	**All standards.**

Units contain tasks that depend upon the concepts addressed in earlier units. 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.

The Framework for Statistical Reasoning, Mathematical Modeling Framework, and the K-12 Mathematical Practices should be taught throughout the units.

Key for Course Standards: MP: Mathematical Practices, MM: Mathematical Modeling, FGR: Functional & Graphical Reasoning, AGR: Algebraic & Geometric Reasoning, GSR: Geometric & Spatial Reasoning, PAR: Patterning & Algebraic Reasoning, PR: Probabilistic Reasoning, DSR: Data & Statistical Reasoning

Updated May 2025

Cobb County School District

Geometry Teaching & Learning Framework

BLOCK

Unit 1 1 week	Unit 2 2 weeks	Unit 3 2 weeks	Unit 4 2.5 weeks	Unit 5 1.5 weeks	Unit 6 3 weeks	Unit 7 2 weeks	Unit 8 3 weeks	Unit 9 1 week
Polynomial Expressions **G.PAR.2**	**Geometric Foundations, Construction, and Proof** **G.GSR.4**	**Congruence** **G.GSR.3**	**Similarity** **G.GSR.5**	**Right Triangle Trigonometry** **G.GSR.6**	**Circles** **G.GSR.8** **G.GSR.7**	**Equations & Measurement** **G.GSR.9**	**Probability & Statistics** **G.PR.10** **G.DSR.11**	**Culminating Capstone Unit**
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