

Cobb County School District

Advanced Financial Algebra Teaching & Learning Framework

Semester 1					Semester 2				
Unit 1 4 weeks	Unit 2 3 weeks	Unit 3 3 weeks	Unit 4 3 weeks	Unit 5 5 weeks	Unit 6 4 weeks	Unit 7 3 weeks	Unit 8 5 weeks	Unit 9 5 weeks	Unit 10 1 weeks
Becoming a More Savvy Consumer AFA.NR.2 AFA.FGR.3 AFA.PAR.4	Post High School Career Options AFA.PAR.4 AFA.FGR.3	Employment Considerations AFA.FGR.3 AFA.PAR.5	Personal Transportation AFA.FGR.3 AFA.PAR.4-5	Housing Options & Related Expenses AFA.NR.2 AFA.FGR.3 AFA.PAR.4 AFA.GSR.6	Investment Opportunities AFA.NR.2 AFA.PAR.4 AFA.FGR.3	Retirement Planning AFA.NR.2 AFA.PAR.4	Business Finance & Economics AFA.FGR.3 AFA.PAR.5	Financial Statistics & Research AFA.DSR.7-8 AFA.FGR.3 AFA.GSR.6	Culminating Capstone Unit
AFA.NR.2.1 (Rational Numbers & Business Applications) AFA.NR.2.2 (Convert Rational Numbers) AFA.FGR.3.2 (Apply Functions to Solve Financial Problems) AFA.FGR.3.5 (Interpret Linear Functions) AFA.FGR.3.6 (Interpret Exponential Functions) AFA.PAR.4.3 (Algebraic Formulas in Spreadsheets) AFA.PAR.4.4 (Simple Interest) AFA.PAR.4.5 (Compound Interest) AFA.PAR.4.6 (Derive Compound Interest) AFA.PAR.4.7 (Compound Continuous Formula) AFA.PAR.4.8 (Natural Base e in the Compound Continuous Formula, $A = Pe^{rt}$) AFA.PAR.4.11 (Interpret and use sigma notation)	AFA.FGR.3.2 (Apply Functions to Solve Financial Problems) AFA.PAR.4.2 (Financial Formulas) AFA.PAR.4.4 (Simple Interest) AFA.PAR.4.9 (Payment Formula) AFA.PAR.4.10 (Total Interest)	AFA.FGR.3.1 (Characteristics of Functions) AFA.FGR.3.2 (Apply Functions to Solve Financial Problems) AFA.FGR.3.3 (Meaning of Functions) AFA.FGR.3.5 (Interpret Linear Functions) AFA.FGR.3.9 (Interpret Piece-wise Functions) AFA.FGR.3.11 (Use Inequalities) AFA.PAR.5.4 (System of Linear & Piecewise) AFA.PAR.5.5 (Linear Systems of Equations & Inequalities)	AFA.FGR.3.1 (Characteristics of Functions) AFA.FGR.3.2 (Apply Functions to Solve Financial Problems) AFA.FGR.3.5 (Interpret Linear Functions) AFA.FGR.3.6 (Exponential Functions) AFA.FGR.3.10 (Square Root & Rational Functions) AFA.PAR.4.1 (Rearrange Formulas) AFA.PAR.4.2 (Financial Formulas) AFA.PAR.4.9 (Payment Formula) AFA.PAR.4.10 (Total Interest) AFA.PAR.5.3 (Systems of Linear & Exponential) AFA.PAR.5.5 (Systems of Equations & Inequalities)	AFA.NR.2.4 (Algebraic Ratios) AFA.FGR.3.2 (Apply Functions to Solve Financial Problems) AFA.FGR.3.8 (Greatest Integer Functions) AFA.PAR.4.1 (Rearrange Formulas) AFA.PAR.4.2 (Financial Formulas) AFA.PAR.4.3 (Algebraic Formulas in Spreadsheets) AFA.PAR.4.9 (Payment Formula) AFA.PAR.4.10 (Total Interest) AFA.GSR.6.1 (Scale Drawings) AFA.GSR.6.2 (Dilations) AFA.GSR.6.4 (Pythagorean Theorem)	AFA.NR.2.1 (Rational Numbers & Business Applications) AFA.NR.2.3 (% Increase & Decrease) AFA.NR.2.4 (Algebraic Ratios) AFA.FGR.3.2 (Apply Functions to Solve Financial Problems) AFA.PAR.4.3 (Algebraic Formulas in Spreadsheets) AFA.PAR.4.12 (Investment & Compound Interest Formulas) AFA.PAR.4.13 (Periodic Investment Formulas)	AFA.NR.2.1 (Rational Numbers & Business Applications) AFA.NR.2.2 (Convert Rational Numbers) AFA.PAR.4.13 (Periodic Investment Formulas)	AFA.FGR.3.1 (Characteristics of Functions) AFA.FGR.3.2 (Apply Functions to Solve Financial Problems) AFA.FGR.3.4 (Function Notation) AFA.FGR.3.7 (Quadratic Functions) AFA.FGR.3.10 (Square Root & Rational Functions) AFA.FGR.3.11 (Use Inequalities) AFA.PAR.5.1 (System of Linear Equations) AFA.PAR.5.2 (System of Linear & Quadratic) AFA.PAR.5.5 (Linear Systems of Equations & Inequalities)	AFA.GSR.6.3 (Sectors & Central Angles) AFA.DSR.7.1 (Central Tendency & Spread) AFA.DSR.7.2 (Data Displays) AFA.DSR.7.3 (Scatterplots) AFA.DSR.7.4 (Regression Equations) AFA.DSR.7.5 (Correlation Coefficient) AFA.DSR.7.6 (Causation/Correlation) AFA.DSR.7.7 (Probability Distribution) AFA.DSR.7.8 (Arithmetic Average Formula) AFA.DSR.8.1 (Investigative Problem) AFA.DSR.8.2 (Statistical Questions) AFA.DSR.8.3 (Statistical Study) AFA.DSR.8.4 (Sample Size) AFA.DSR.8.5 (Random Selection) AFA.DSR.8.6 (Random Designs) AFA.DSR.8.7 (Big Data) AFA.DSR.8.8 (Distributions) AFA.DSR.8.9 (Interpret Results)	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, NR: Numerical Reasoning, FGR: Functional & Graphical Reasoning, AGR: Algebraic & Geometric Reasoning, GSR: Geometric & Spatial Reasoning, PAR: Patterning & Algebraic Reasoning, DSR: Data & Statistical Reasoning

Cobb County School District

Advanced Financial Algebra Teaching & Learning Framework

BLOCK

Unit 1 2 weeks	Unit 2 1.5 weeks	Unit 3 1.5 weeks	Unit 4 1.5 weeks	Unit 5 2.5 weeks	Unit 6 2 weeks	Unit 7 1.5 weeks	Unit 8 2.5 weeks	Unit 9 2.5 weeks	Unit 10 .5 week
Becoming a More Savvy Consumer AFA.NR.2 AFA.FGR.3 AFA.PAR.4	Post High School Career Options AFA.PAR.4 AFA.FGR.3	Employment Considerations AFA.FGR.3 AFA.PAR.5	Personal Transportation AFA.FGR.3 AFA.PAR.4-5	Housing Options & Related Expenses AFA.NR.2 AFA.FGR.3 AFA.PAR.4 AFA.GSR.6	Investment Opportunities AFA.NR.2 AFA.PAR.4 AFA.FGR.3	Retirement Planning AFA.NR.2 AFA.PAR.4	Business Finance & Economics AFA.FGR.3 AFA.PAR.5	Financial Statistics & Research AFA.DSR.7-8 AFA.FGR.3 AFA.GSR.6	Culminating Capstone Unit
AFA.NR.2.1 (Rational Numbers & Business Applications) AFA.NR.2.2 (Convert Rational Numbers) AFA.FGR.3.2 (Apply Functions to Solve Financial Problems) AFA.FGR.3.5 (Interpret Linear Functions) AFA.FGR.3.6 (Interpret Exponential Functions) AFA.PAR.4.3 (Algebraic Formulas in Spreadsheets) AFA.PAR.4.4 (Simple Interest) AFA.PAR.4.5 (Compound Interest) AFA.PAR.4.6 (Derive Compound Interest) AFA.PAR.4.7 (Compound Continuous Formula) AFA.PAR.4.8 (Natural Base e in the Compound Continuous Formula, $A = Pe^{rt}$) AFA.PAR.4.11 (Interpret and use sigma notation)	AFA.FGR.3.2 (Apply Functions to Solve Financial Problems) AFA.PAR.4.2 (Financial Formulas) AFA.PAR.4.4 (Simple Interest) AFA.PAR.4.9 (Payment Formula) AFA.PAR.4.10 (Total Interest)	AFA.FGR.3.1 (Characteristics of Functions) AFA.FGR.3.2 (Apply Functions to Solve Financial Problems) AFA.FGR.3.5 (Financial Problems) AFA.FGR.3.3 (Meaning of Functions) AFA.FGR.3.5 (Interpret Linear Functions) AFA.FGR.3.9 (Interpret Piece-wise Functions) AFA.FGR.3.11 (Use Inequalities) AFA.PAR.5.4 (System of Linear & Piecewise) AFA.PAR.5.5 (Linear Systems of Equations & Inequalities)	AFA.FGR.3.1 (Characteristics of Functions) AFA.FGR.3.2 (Apply Functions to Solve Financial Problems) AFA.FGR.3.5 (Interpret Linear Functions) AFA.FGR.3.6 (Exponential Functions) AFA.FGR.3.10 (Square Root & Rational Functions) AFA.PAR.4.1 (Rearrange Formulas) AFA.PAR.4.2 (Financial Formulas) AFA.PAR.4.2 (Financial Formulas) AFA.PAR.4.9 (Payment Formula) AFA.PAR.4.10 (Total Interest) AFA.PAR.5.3 (Systems of Linear & Exponential) AFA.PAR.5.5 (Systems of Equations & Inequalities)	AFA.NR.2.4 (Algebraic Ratios) AFA.FGR.3.2 (Apply Functions to Solve Financial Problems) AFA.FGR.3.8 (Greatest Integer Functions) AFA.PAR.4.1 (Rearrange Formulas) AFA.PAR.4.2 (Financial Formulas) AFA.PAR.4.3 (Algebraic Formulas in Spreadsheets) AFA.PAR.4.9 (Payment Formula) AFA.PAR.4.10 (Total Interest) AFA.GSR.6.1 (Scale Drawings) AFA.GSR.6.2 (Dilations) AFA.GSR.6.4 (Pythagorean Theorem)	AFA.NR.2.1 (Rational Numbers & Business Applications) AFA.NR.2.3 (% Increase & Decrease) AFA.NR.2.4 (Algebraic Ratios) AFA.FGR.3.2 (Apply Functions to Solve Financial Problems) AFA.PAR.4.3 (Algebraic Formulas in Spreadsheets) AFA.PAR.4.12 (Investment & Compound Interest Formulas) AFA.PAR.4.13 (Periodic Investment Formulas)	AFA.NR.2.1 (Rational Numbers & Business Applications) AFA.NR.2.2 (Convert Rational Numbers) AFA.PAR.4.13 (Periodic Investment Formulas)	AFA.FGR.3.1 (Characteristics of Functions) AFA.FGR.3.2 (Apply Functions to Solve Financial Problems) AFA.FGR.3.4 (Function Notation) AFA.FGR.3.7 (Quadratic Functions) AFA.FGR.3.10 (Square Root & Rational Functions) AFA.FGR.3.11 (Use Inequalities) AFA.PAR.5.1 (System of Linear Equations) AFA.PAR.5.2 (System of Linear & Quadratic) AFA.PAR.5.5 (Linear Systems of Equations & Inequalities)	AFA.GSR.6.3 (Sectors & Central Angles) AFA.DSR.7.1 (Central Tendency & Spread) AFA.DSR.7.2 (Data Displays) AFA.DSR.7.3 (Scatterplots) AFA.DSR.7.4 (Regression Equations) AFA.DSR.7.5 (Correlation Coefficient) AFA.DSR.7.6 (Causation/Correlation) AFA.DSR.7.7 (Probability Distribution) AFA.DSR.7.8 (Arithmetic Average Formula) AFA.DSR.8.1 (Investigative Problem) AFA.DSR.8.2 (Statistical Questions) AFA.DSR.8.3 (Statistical Study) AFA.DSR.8.4 (Sample Size) AFA.DSR.8.5 (Random Selection) AFA.DSR.8.6 (Random Designs) AFA.DSR.8.7 (Big Data) AFA.DSR.8.8 (Distributions) AFA.DSR.8.9 (Interpret Results)	All standards

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