Cobb County School District



8 th Grade Mathematics Teaching & Learning Framework							
Semester 1				Semester 2			
Unit 1	Unit 2A	Unit 2B	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7
6 weeks	2 weeks	7 weeks	3 weeks	5 weeks	6 weeks	4 weeks	3 weeks
Investigating Linear	Modeling	Modeling Linear	Investigating	Real-Life	Irrationals, Integer	Exploring	Culminating
Expressions, Equations,	Linear Relationship	Relationships and	Data & Statistical	Phenomena	Exponents and Scientific	Geometric	Capstone
and Inequalities in One	s and	Functions	Reasoning	Explored Through	Notation	Relationships	Unit
Variable	Functions	8.PAR.4	8.FGR.6	Systems of Linear	8.NR.1-2	8.GSR.8	
8.PAR.3	8.FGR.5	8.FGR.5		Equations			
				8.FGR.7			
8.PAR.3.6	8.FGR.5.1	8.PAR.4.1	8.FGR.6.1	8.FGR.7.1	8.NR.1.1	8.GSR.8.1	All
(Literal equations)	(Functions)	(y = mx + b and y = mx)	(Line of best	(Interpret and solve	(Rational and irrational	(Proof and	Standards
8.PAR.3.1	8.FGR. 5.2	8.PAR.4.2	fit)	problems with two	numbers)	converse of	
(Expressions)	(Linear and	(Graphing lines)	8.FGR.6.2	equations and two	8.NR.1.2	Pythagorean	
8.PAR.3.2	non-linear	8.FGR.5.3	(Solving	variables)	(Locate irrational numbers	Theorem)	
(Solving equations)	functions)	(Domain)	problems	8.FGR.7.2	on number line)	8.GSR.8.2	
8.PAR.3.3		8.FGR.5.4	using linear	(Intersection points of	8.NR.2.1	(Apply	
(Create and solve		(Compare properties)	model	linear equations)	(Integer exponents)	Pythagorean	
equations and inequalities		8.FGR.5.5	equation)	8.FGR.7.3	8.NR.2.2	Theorem)	
including compound)		(Equation forms)	8.FGR.6.3	(Solve systems by	(Square roots and cube	8.GSR.8.3	
8.PAR.3.4		8.FGR.5.6	(Meaning of	graphing)	roots)	(Distance	
(Justify solving equations		(Equivalent forms)	predicted	8.FGR.7.4	8.NR.2.3	between two	
with properties)		8.FGR.5.7	slope and	(Solve systems	(Scientific notation)	points on	
8.PAR.3.5		(Construct a linear	intercept of	algebraically)	8.NR.2.4	graph)	
(Solve equations and		function)	linear	8.FGR.7.5	(Add, subtract, multiply, and	8.GSR.8.4	
inequalities with		8.FGR.5.8	model)	(Parallel and	divide with scientific	(Volume of	
coefficients as letters)		(Rate of change and initial	8.FGR.6.4	perpendicular line	notation numbers)	cone, cylinder,	
		value)	(Line of best	equations)		and sphere)	
		8.FGR.5.9	fit questions				
		(Characteristics)	and				
			inferences)				

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: PAR: Patterning & Algebraic Reasoning, FGR: Functional & Graphical Reasoning, GSR: Geometric & Spatial Reasoning, NR: Numerical Reasoning