## **CCGPS COORDINATE ALGEBRA CONTENT MAP**

Lesson	Sub-lesson	Title	Standard(s)			
Losson 1	number	Characteria in English and				
Lesson 1	Interpreting	Structure in Expressions				
	1.1.1	Identifying Terms, Factors, and Coefficients	MCC9–12.A.SSE.1a*			
	1.1.2		MCC9–12.A.SSE.1b*			
Lesson 2	Creating Equations and Inequalities in One Variable					
			MCC9–12.A.CED.1*			
	1.2.1	Creating Linear Equations in One Variable	MCC9–12.N.Q.2*			
			MCC9–12.N.Q.3*			
	1.2.2	Creating Linear Inequalities in One Variable	MCC9–12.A.CED.1*			
	1.2.3	Creating Exponential Equations	MCC9–12.A.CED.1*			
Lesson 3	Creating and Graphing Equations in Two Variables					
		Creating and Graphing Linear Equations in Two Variables	MCC9–12.A.CED.2*			
	1.3.1		MCC9-12 N O 1*			
		Creating and Graphing Exponential Equations	MCC9-12 A CED 2*			
	1.3.2		MCC9-12.A.CED.2			
Lesson 4	Donmosontin	g Constrainta	MCC9-12.N.Q.1*			
LC35011 4	1 4 1	Representing Constraints				
Lesson 5	1.4.1 Rearranging	Formulas	MCC9-12.A.CED.3^			
Lesson o		Rearranging Formulas	MCC0 12 A CED 4*			
Unit 2. R	easoning wi	th Equations and Inequalities	MCC9-12.A.CED.4~			
Lasson	Sub-lesson	Title	Standard(s)			
LCSSUI		The	Juniual u(3)			
T 1	number					
Lesson 1	Solving Equa	ations and Inequalities				
Lesson 1	Solving Equa	ations and Inequalities Properties of Equality	MCC9–12.A.REI.1			
Lesson 1	Solving Equa           2.1.1           2.1.2	ations and Inequalities Properties of Equality Solving Linear Equations	MCC9–12.A.REI.1 MCC9–12.A.REI.3			
Lesson 1	Solving Equal           2.1.1           2.1.2           2.1.3	ations and Inequalities Properties of Equality Solving Linear Equations Solving Linear Inequalities	MCC9–12.A.REI.1 MCC9–12.A.REI.3 MCC9–12.A.REI.3			
Lesson 1	Number           Solving Equation           2.1.1           2.1.2           2.1.3           2.1.4	ations and Inequalities Properties of Equality Solving Linear Equations Solving Linear Inequalities Solving Exponential Equations	MCC9–12.A.REI.1 MCC9–12.A.REI.3 MCC9–12.A.REI.3 MCC9–12.A.REI.3			
Lesson 1 Lesson 2	Number           Solving Equa           2.1.1           2.1.2           2.1.3           2.1.4           Solving System	ations and Inequalities Properties of Equality Solving Linear Equations Solving Linear Inequalities Solving Exponential Equations ems of Equations	MCC9–12.A.REI.1 MCC9–12.A.REI.3 MCC9–12.A.REI.3 MCC9–12.A.REI.3			
Lesson 1 Lesson 2	Solving Equal           2.1.1           2.1.2           2.1.3           2.1.4           Solving System           2.2.1	Ations and Inequalities Properties of Equality Solving Linear Equations Solving Linear Inequalities Solving Exponential Equations ems of Equations Proving Equivalences Solving Equivalences	MCC9–12.A.REI.1 MCC9–12.A.REI.3 MCC9–12.A.REI.3 MCC9–12.A.REI.3 MCC9–12.A.REI.5			
Lesson 1 Lesson 2	Number           Solving Equal           2.1.1           2.1.2           2.1.3           2.1.4           Solving System           2.2.1           2.2.2	ations and Inequalities Properties of Equality Solving Linear Equations Solving Linear Inequalities Solving Exponential Equations ems of Equations Proving Equivalences Solving Systems of Linear Equations	MCC9–12.A.REI.1 MCC9–12.A.REI.3 MCC9–12.A.REI.3 MCC9–12.A.REI.3 MCC9–12.A.REI.5 MCC9–12.A.REI.6			
Lesson 1 Lesson 2 Lesson 3	Number           Solving Equal           2.1.1           2.1.2           2.1.3           2.1.4           Solving System           2.2.1           2.2.2           Solving Line	ations and Inequalities Properties of Equality Solving Linear Equations Solving Linear Inequalities Solving Exponential Equations ems of Equations Proving Equivalences Solving Systems of Linear Equations ar Inequalities in Two Variables and Systems of Inequalities	MCC9–12.A.REI.1 MCC9–12.A.REI.3 MCC9–12.A.REI.3 MCC9–12.A.REI.3 MCC9–12.A.REI.5 MCC9–12.A.REI.6 es			
Lesson 1 Lesson 2 Lesson 3	Solving Equal           2.1.1           2.1.2           2.1.3           2.1.4           Solving System           2.2.1           2.2.2           Solving Line           2.3.1           2.2.2	ations and Inequalities Properties of Equality Solving Linear Equations Solving Linear Inequalities Solving Exponential Equations ems of Equations Proving Equivalences Solving Systems of Linear Equations ar Inequalities in Two Variables and Systems of Inequalities Solving Linear Inequalities in Two Variables	MCC9–12.A.REI.1 MCC9–12.A.REI.3 MCC9–12.A.REI.3 MCC9–12.A.REI.3 MCC9–12.A.REI.5 MCC9–12.A.REI.6 es MCC9–12.A.REI.12			
Lesson 2 Lesson 3	Solving Equal           2.1.1           2.1.2           2.1.3           2.1.4           Solving System           2.2.1           2.2.2           Solving Line           2.3.1           2.3.2	ations and Inequalities The properties of Equality Solving Linear Equations Solving Linear Inequalities Solving Exponential Equations Ems of Equations Proving Equivalences Solving Systems of Linear Equations ar Inequalities in Two Variables and Systems of Inequalities Solving Systems of Linear Inequalities	MCC9–12.A.REI.1 MCC9–12.A.REI.3 MCC9–12.A.REI.3 MCC9–12.A.REI.3 MCC9–12.A.REI.5 MCC9–12.A.REI.6 es MCC9–12.A.REI.12 MCC9–12.A.REI.12			
Lesson 2 Lesson 3 Unit 3: L	Solving Equal           2.1.1           2.1.2           2.1.3           2.1.4           Solving Syste           2.2.1           2.2.2           Solving Line           2.3.1           2.3.2	ations and Inequalities Properties of Equality Solving Linear Equations Solving Linear Inequalities Solving Exponential Equations ems of Equations Proving Equivalences Solving Systems of Linear Equations ar Inequalities in Two Variables and Systems of Inequalities Solving Linear Inequalities in Two Variables Solving Systems of Linear Inequalities Solving Systems of Linear Inequalities	MCC9–12.A.REI.1 MCC9–12.A.REI.3 MCC9–12.A.REI.3 MCC9–12.A.REI.3 MCC9–12.A.REI.5 MCC9–12.A.REI.6 es MCC9–12.A.REI.12 MCC9–12.A.REI.12			
Lesson 1 Lesson 2 Lesson 3 Unit 3: L Lesson	Number           Solving Equal           2.1.1           2.1.2           2.1.3           2.1.4           Solving Syste           2.2.1           2.2.2           Solving Line           2.3.1           2.3.2           inear and Es           Sub-lesson           number	Ations and Inequalities Ations and Inequalities Properties of Equality Solving Linear Equations Solving Exponential Equations ems of Equations Proving Equivalences Solving Systems of Linear Equations ar Inequalities in Two Variables and Systems of Inequalitie Solving Systems of Linear Inequalities Solving Systems of Linear Inequ	MCC9–12.A.REI.1 MCC9–12.A.REI.3 MCC9–12.A.REI.3 MCC9–12.A.REI.3 MCC9–12.A.REI.5 MCC9–12.A.REI.6 es MCC9–12.A.REI.12 MCC9–12.A.REI.12 Standard(s)			
Lesson 1 Lesson 2 Lesson 3 Unit 3: L Lesson Lesson 1	Number           Solving Equal           2.1.1           2.1.2           2.1.3           2.1.4           Solving System           2.2.1           2.2.2           Solving Line           2.3.1           2.3.2           inear and Examples           Sub-lesson           number           Graphs As Solving Line	Ations and Inequalities Ations and Inequalities Properties of Equality Solving Linear Equations Solving Exponential Equations ems of Equations Proving Equivalences Solving Systems of Linear Equations ar Inequalities in Two Variables and Systems of Inequalities Solving Systems of Linear Ineq	MCC9–12.A.REI.1 MCC9–12.A.REI.3 MCC9–12.A.REI.3 MCC9–12.A.REI.3 MCC9–12.A.REI.5 MCC9–12.A.REI.6 es MCC9–12.A.REI.12 MCC9–12.A.REI.12 Standard(s)			
Lesson 1 Lesson 2 Lesson 3 Unit 3: L Lesson Lesson 1	Number           Solving Equal           2.1.1           2.1.2           2.1.3           2.1.4           Solving System           2.2.1           2.2.2           Solving Line           2.3.1           2.3.2           inear and IS           Sub-lesson           number           Graphs As So           3.1.1	Ations and Inequalities  Properties of Equality Solving Linear Equations Solving Linear Inequalities Solving Exponential Equations ems of Equations Proving Equivalences Solving Systems of Linear Equations ar Inequalities in Two Variables and Systems of Inequalities Solving Linear Inequalities in Two Variables Solving Systems of Linear Inequalities Solving Systems of Linear Inequalities Solving Systems of Linear Inequalities Title Duttion Sets and Function Notation Graphing the Set of All Solutions	MCC9–12.A.REI.1 MCC9–12.A.REI.3 MCC9–12.A.REI.3 MCC9–12.A.REI.3 MCC9–12.A.REI.5 MCC9–12.A.REI.6 es MCC9–12.A.REI.12 MCC9–12.A.REI.12 Standard(s)			
Lesson 1 Lesson 2 Lesson 3 Unit 3: L Lesson Lesson 1	Number           Solving Equal           2.1.1           2.1.2           2.1.3           2.1.4           Solving Syste           2.2.1           2.2.2           Solving Line           2.3.1           2.3.2           inear and E           Sub-lesson           number           Graphs As So           3.1.1           3.1.2	ations and Inequalities         Properties of Equality         Solving Linear Equations         Solving Linear Inequalities         Solving Exponential Equations         ems of Equations         Proving Equivalences         Solving Systems of Linear Equations         ar Inequalities in Two Variables and Systems of Inequalities         Solving Systems of Linear Inequalities         Graphing the Set of All Solutions         Intersecting Graphs	MCC9–12.A.REI.1 MCC9–12.A.REI.3 MCC9–12.A.REI.3 MCC9–12.A.REI.3 MCC9–12.A.REI.5 MCC9–12.A.REI.6 es MCC9–12.A.REI.12 MCC9–12.A.REI.12 MCC9–12.A.REI.12			
Lesson 1 Lesson 2 Lesson 3 Unit 3: L Lesson Lesson 1	Number           Solving Equal           2.1.1           2.1.2           2.1.3           2.1.4           Solving Syste           2.2.1           2.2.2           Solving Line           2.3.1           2.3.2           inear and Explored	Ations and Inequalities Ations and Inequalities Properties of Equality Solving Linear Equations Solving Linear Inequalities Solving Exponential Equations ems of Equations Proving Equivalences Solving Systems of Linear Equations ar Inequalities in Two Variables and Systems of Inequalities Solving Systems of Linear Inequalities So	MCC9–12.A.REI.1 MCC9–12.A.REI.3 MCC9–12.A.REI.3 MCC9–12.A.REI.3 MCC9–12.A.REI.5 MCC9–12.A.REI.6 es MCC9–12.A.REI.12 MCC9–12.A.REI.12 MCC9–12.A.REI.12 MCC9–12.A.REI.11* MCC9–12.A.REI.11*			
Lesson 1 Lesson 2 Lesson 3 Unit 3: L Lesson Lesson 1	Number           Solving Equal           2.1.1           2.1.2           2.1.3           2.1.4           Solving Syste           2.2.1           2.2.2           Solving Line           2.3.1           2.3.2           inear and Est           Sub-lesson           number           Graphs As So           3.1.1           3.1.2           3.1.3           3.1.4	Ations and Inequalities Properties of Equality Solving Linear Equations Solving Linear Inequalities Solving Exponential Equations ems of Equations Proving Equivalences Solving Systems of Linear Equations ar Inequalities in Two Variables and Systems of Inequalitie Solving Systems of Linear Inequalities Solving Systems of Linear I	MCC9–12.A.REI.1         MCC9–12.A.REI.3         MCC9–12.A.REI.3         MCC9–12.A.REI.3         MCC9–12.A.REI.5         MCC9–12.A.REI.6         es         MCC9–12.A.REI.12         MCC9–12.A.REI.12         MCC9–12.A.REI.12         MCC9–12.A.REI.12         MCC9–12.A.REI.12         MCC9–12.A.REI.12         MCC9–12.A.REI.12         MCC9–12.A.REI.12         MCC9–12.A.REI.12			
Lesson 1 Lesson 2 Lesson 3 Unit 3: L Lesson Lesson 1	Number           Solving Equal           2.1.1           2.1.2           2.1.3           2.1.4           Solving Syste           2.2.1           2.2.2           Solving Line           2.3.1           2.3.2           inear and E           Sub-lesson           number           Graphs As So           3.1.1           3.1.2           3.1.3           3.1.4           Sequences A	ations and Inequalities         Properties of Equality         Solving Linear Equations         Solving Linear Inequalities         Solving Exponential Equations         ems of Equations         Proving Equivalences         Solving Systems of Linear Equations         ar Inequalities in Two Variables and Systems of Inequalities         Solving Systems of Linear Inequalities         Solving Systems of All Solutions         Intersecting Graphs         Domain and Range         Functions <t< td=""><td>MCC9–12.A.REI.1         MCC9–12.A.REI.3         MCC9–12.A.REI.3         MCC9–12.A.REI.3         MCC9–12.A.REI.5         MCC9–12.A.REI.6         es         MCC9–12.A.REI.12         MCC9–12.A.REI.12         MCC9–12.A.REI.12         MCC9–12.A.REI.12         MCC9–12.A.REI.12         MCC9–12.A.REI.12         MCC9–12.A.REI.11*         MCC9–12.F.IF.1         MCC9–12.F.IF.2</td></t<>	MCC9–12.A.REI.1         MCC9–12.A.REI.3         MCC9–12.A.REI.3         MCC9–12.A.REI.3         MCC9–12.A.REI.5         MCC9–12.A.REI.6         es         MCC9–12.A.REI.12         MCC9–12.A.REI.12         MCC9–12.A.REI.12         MCC9–12.A.REI.12         MCC9–12.A.REI.12         MCC9–12.A.REI.12         MCC9–12.A.REI.11*         MCC9–12.F.IF.1         MCC9–12.F.IF.2			



Lesson 3	Interpreting Graphs of Functions						
	3.3.1	Identifying Key Features of Linear and Exponential Graphs	MCC9–12.F.IF.4*				
			MCC9–12.F.IF.5*				
	332	Proving Average Rate of Change	MCC9–12.F.IF.6*				
	0.0.2		MCC9–12.F.LE.1a*				
			MCC9–12.F.IF.6★				
	3.3.3	Recognizing Average Rate of Change	MCC9–12.F.LE.1b★				
			MCC9–12.F.LE.1c*				
Lesson 4	Analyzing Linear and Exponential Functions						
	3.4.1	Graphing Linear Functions	MCC9–12.F.IF.7a*				
	3.4.2	Graphing Exponential Functions	MCC9–12.F.IF.7e*				
Lesson 5	Comparing Functions						
	3.5.1	Comparing Linear Functions	MCC9–12.F.IF.9				
	3.5.2	Comparing Exponential Functions	MCC9–12.F.IF.9				
	3.5.3	Comparing Linear to Exponential Functions	MCC9–12.F.LE.3*				
Lesson 6	Building Functions						
	3.6.1	Building Functions from Context	MCC9–12.F.BF.1a*				
	3.6.2	Constructing Functions from Graphs and Tables	MCC9–12.F.LE.2*				
Lesson 7	Operating on Functions and Transformations						
	3.7.1	Operating on Functions	MCC9–12.F.BF.1b*				
	3.7.2	Transformations of Linear and Exponential Functions	MCC9–12.F.BF.3				
Lesson 8	Arithmetic and Geometric Sequences						
	3.8.1	Arithmetic Sequences	MCC9–12.F.BF.2*				
	3.8.2	Geometric Sequences	MCC9–12.F.BF.2*				
Lesson 9	Interpreting	Parameters					
	3.9.1	Interpreting Parameters	MCC9–12.F.LE.5*				
Unit 4: D	nit 4: Describing Data						
Lesson	Sub-lesson number	Title	Standard(s)				
Lesson 1	Working wit	h a Single Measurement Variable					
	4.1.1	Summarizing Numerical Data Sets* (Transition Standard)	MCC6.SP.5c* (Transition Standard)				
	4.1.2	Representing Data Sets	MCC9–12.S.ID.1*				
	4.1.3	Comparing Data Sets	MCC9–12.S.ID.2*				
	4.1.4	Interpreting Data Sets	MCC9–12.S.ID.3*				
Lesson 2	Working with Two Categorical and Quantitative Variables						
	4.2.1	Summarizing Data Using Two-Way Frequency Tables	MCC9–12.S.ID.5*				
	4.2.2	Solving Problems Given Functions Fitted to Data	MCC9–12.S.ID.6a*				
	4.2.3	Analyzing Residuals	MCC9–12.S.ID.6b*				
	4.2.4	Fitting Linear Functions to Data	MCC9–12.S.ID.6c*				
Lesson 3	Interpreting Linear Models						
	4.3.1	Interpreting Slope and <i>y</i> -intercept	MCC9–12.S.ID.7*				
	4.3.2	Calculating and Interpreting the Correlation Coefficient	MCC9–12.S.ID.8*				
	4.3.3	Distinguishing Between Correlation and Causation	MCC9–12.S.ID.9*				



Unit 5: Transformations in the Coordinate Plane							
Lesson	Sub-lesson number	Title	Standard(s)				
Lesson 1	Introducing	Fransformations					
	5.1.1	Defining Terms	MCC9–12.G.CO.1				
	5.1.2	Transformations As Functions	MCC9–12.G.CO.2				
	5.1.3	Applying Lines of Symmetry	MCC9-12.G.CO.3				
Lesson 2	Defining and Applying Rotations, Reflections, and Translations						
	5.2.1	Defining Rotations, Reflections, and Translations	MCC9-12.G.CO.4				
	5.2.2	Applying Rotations, Reflections, and Translations	MCC9-12.G.CO.5				
Unit 6: Connecting Algebra and Geometry Through Coordinates							
Lesson	Sub-lesson number	Title	Standard(s)				
Lesson 1	Slope and Distance						
	6.1.1	Applying the Pythagorean Theorem* (Transition Standard)	MCC8.G.8* (Transition Standard)				
	6.1.2	Using Coordinates to Prove Geometric Theorems with Slope and	MCC9–12.G.GPE.4				
		Distance	MCC9–12.G.GPE.5				
	6.1.3	Working with Parallel and Perpendicular Lines	MCC9–12.G.GPE.5				
Lesson 2	Lines and Seg						
	6.2.1	Midpoints and Other Points on Line Segments	MCC9–12.G.GPE.6				
	6.2.2	Calculating Perimeter and Area	MCC9–12.G.GPE.7*				

