Texas Essential Knowledge and Skills (TEKS) Algebra I Dot Chart

◆ indicates standard fully covered within the lesson

◇ indicates standard partially covered within the lesson

Lesson #	Lesson Name	KSS 1							KSS 2									KSS 3								KSS 4			KSS 5			KSS 6			KSS 7			KSS 8			KSS 9					KSS 10						KSS 11		KSS 12				
		A	B	C	D	E	F	G	A	B	C	D	E	F	G	H	I	A	B	C	D	E	F	G	H	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	D	E	A	B	C	D	E	F	A	B	A	B	C	D	E
Unit 1: Linear Equations																																																										
1.1	Exploring Expressions and Equations	◆																																																							
1.2	Writing Equations to Model Relationships, Part 1	◆									◇																																														
1.3	Writing Equations to Model Relationships, Part 2	◆									◇																																														
1.4	Equations and Their Solutions	◆		◆							◇																																														
1.5	Equations and Their Graphs	◆		◆	◆						◇									◇																																					
1.6	Equivalent Equations		◆				◆																							◇																											
1.7	Explaining Steps for Rewriting Equations		◆		◆		◆																							◇																											
1.8	Choosing the Correct Variable to Solve For, Part 1						◆				◇																																														◇	
1.9	Choosing the Correct Variable to Solve For, Part 2	◆					◆				◇																																															◆
1.10	Connecting Equations to Graphs, Part 1	◆		◆			◆				◇								◇		◇																																				
1.11	Connecting Equations to Graphs, Part 2					◆													◇		◆																																				
1.12	Writing the Equation of a Line					◆				◇	◆																																															
1.13	Lines from Tables and Graphs																																																									
1.14	Writing Equations of Parallel and Perpendicular Lines			◆						◇			◆	◆	◇			◇																																							
1.15	Direct Variation	◆								◇	◆																																														
Unit 2: Linear Inequalities and Systems																																																									
2.1	Writing and Graphing Systems of Linear Equations	◆		◆												◇														◇																										
2.2	Writing Systems of Equations																																																								
2.3	Solving Systems by Substitution		◇													◇															◆																										
2.4	Solving Systems by Elimination, Part 1						◆																								◆																									
2.5	Solving Systems by Elimination, Part 2	◆																													◆																									
2.6	Solving Systems by Elimination, Part 3		◆	◆																											◆																									
2.7	Systems of Linear Equations and Their Solutions	◆					◆																								◆																									
2.8	Representing Situations with Inequalities	◆																																																						
2.9	Solutions to Inequalities	◆			◆																									◆																										
2.10	Writing and Solving Inequalities in One Variable				◆	◆																								◆																										
2.11	Graphing Linear Inequalities in Two Variables			◆																	◆																																			
2.12	Using Linear Inequalities as Constraints	◆													◇						◆																																			
2.13	Solving Problems with Inequalities in Two Variables		◆		◆	◆									◇						◆																																			
2.14	Solutions to Systems of Linear Inequalities in Two Variables	◆		◆	◆		◆								◇												◆																												
2.15	Solving Problems with Systems of Linear Inequalities in Two Variables						◆								◇												◆																												
Unit 3: Two-Variable Statistics																																																									
3.1	Linear Models	◆		◆		◆																								◇																										
3.2	Fitting Lines	◆			◆		◆																							◇																										

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Lesson #	Lesson Name	KSS 1 A	B	C	D	E	F	G	KSS 2 A	B	C	D	E	F	G	H	I	KSS 3 A	B	C	D	E	F	G	H	KSS 4 A	B	C	KSS 5 A	B	C	KSS 6 A	B	C	KSS 7 A	B	C	KSS 8 A	B	KSS 9 A	B	C	D	E	KSS 10 A	B	C	D	E	F	KSS 11 A	B	KSS 12 A	B	C	D	E
3.3	Residuals	♦		♦		♦																							◇																													
3.4	The Correlation Coefficient			♦	♦	♦																				◇																																
3.5	Using the Correlation Coefficient	♦		♦		♦																				♦	◇																																
3.6	Causal Relationships	♦					♦																				♦																																
Unit 4: Functions																																																										
4.1	Describing and Graphing Situations				♦																																																			◇		
4.2	Function Notation	♦			♦																																																◇	◇			
4.3	Interpreting & Using Function Notation			♦																																																		◇			
4.4	Using Function Notation to Describe Rules, Part 1					♦																																																	♦		
4.5	Using Function Notation to Describe Rules, Part 2					♦																																															◇	♦			
4.6	Features of Graphs	♦			♦		♦	♦		◇		◇																												◇															◇		
4.7	Finding Slope																																																								
4.8	Using Graphs to Find Average Rate of Change	♦					♦	♦		◇																																															
4.9	Interpreting and Creating Graphs	♦			♦	♦																																																◇			
4.10	Comparing Graphs		♦	♦		♦																																															◇			
4.11	Graphing a Function Using Transformations				♦	♦					◇											◇																																			
4.12	Domain and Range, Part 1		♦	♦		♦	♦	◇																																																
4.13	Domain and Range, Part 2	♦			♦		♦	♦																																																
4.14	Sequences	♦	♦		♦																																																			
4.15	Introducing Geometric Sequences			♦		♦																																																	◇		
4.16	Different Types of Sequences					♦																																																◇		
4.17	Sequences Are Functions					♦																																																♦		
4.18	The nth Term of an Arithmetic Sequence		♦			♦																																																		♦
Unit 5: Introduction to Exponential Functions																																																										
5.1	Properties of Exponents						♦																																												♦					
5.2	Rational Exponents					♦																																													♦					
5.3	Patterns of Growth				♦	♦																																																		
5.4	Representing Exponential Growth	♦			♦	♦																																			◇	◇		◇													
5.5	Representing Exponential Decay	♦				♦	♦																																		♦	♦		◇													
5.6	Negative Exponents and Scientific Notation	♦			♦	♦																																				♦															
5.7	Analyzing Graphs	♦		♦		♦																																				◇	◇													
5.8	Exponential Situations as Functions				♦																																				◇	♦													
5.9	Interpreting Exponential Functions						♦																																	♦	◇		◇	◇												
5.10	Looking at Rates of Change	♦		♦			♦																																																	
5.11	Modeling Exponential Behavior		♦		♦	♦	♦																																				◇							♦							
5.12	Reasoning about Exponential Graphs, Part 1			♦		♦	♦																																			♦	♦													
5.13	Reasoning about Exponential Graphs, Part 2	♦																																								◇	♦	◇													
5.14	Which One Changes Faster?	♦	♦	♦		♦	♦		♦																																	◇														
5.15	Changes over Equal Intervals				♦		♦		♦																																		◇														
Unit 6: Working with Polynomials																																																										

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Lesson #	Lesson Name	1A	1B	1C	1D	1E	1F	1G	2A	2B	2C	2D	2E	2F	2G	2H	2I	3A	3B	3C	3D	3E	3F	3G	3H	4A	4B	4C	5A	5B	5C	6A	6B	6C	7A	7B	7C	8A	8B	9A	9B	9C	9D	9E	10A	10B	10C	10D	10E	10F	11A	11B	12A	12B	12C	12D	12E
6.1	Add and Subtract Polynomials						◆																																						◆								◆				
6.2	Multiplying Polynomials		◆																																											◆										
6.3	Dividing Polynomials				◆																																										◆									
6.4	Greatest Common Factor and Factor by Grouping				◆																																											◆								
6.5	Factor Trinomials			◆	◆		◆																																																	
6.6	Factor Special Products				◆																																												◆	◆							
6.7	General Strategy for Factoring Polynomials		◆			◆	◆																																									◆	◆	◆							
Unit 7: Introduction to Quadratic Functions																																																									
7.1	Patterns of Change	◆	◆	◆		◆																													◆																						
7.2	Introduction to Quadratic Relationships		◆			◆																																																		
7.3	Building Quadratic Functions from Geometric Patterns			◆	◆	◆	◆																										◆																								
7.4	Comparing Quadratic and Exponential Functions					◆	◆																																														◆				
7.5	Building Quadratic Functions to Describe Situations, Part 1	◆																																																						◇	
7.6	Building Quadratic Functions to Describe Situations, Part 2	◆				◆																										◇			◇																						
7.7	Domain, Range, Vertex, and Zeros of Quadratic Functions	◆		◆		◆																										◇			◇																						
7.8	Equivalent Quadratic Expressions			◆																																											◆										
7.9	Standard Form and Factored Form				◆																																									◇											
7.10	Graphs of Functions in Standard and Factored Forms	◆																																	◇	◆																					
7.11	Graphing from the Factored Form			◆																															◇	◆																					
7.12	Graphing the Standard Form, Part 1				◆	◆																													◇	◆	◆																				
7.13	Graphing the Standard Form, Part 2					◆																												◇	◇	◆																				
7.14	Graphs That Represent Situations					◆																													◇																						
7.15	Vertex Form					◆	◆																												◇		◇																				
7.16	Graphing from the Vertex Form			◆		◆	◆																												◇																						
7.17	Changing the Vertex					◆	◆																									◇			◇		◇																				
Unit 8: Quadratic Equations																																																									
8.1	Finding Unknown Inputs	◆				◆																																																			
8.2	When and Why Do We Write Quadratic Equations?	◆		◆																																					◇																
8.3	Solving Quadratic Equations by Reasoning					◆																																			◇																
8.4	Solving Quadratic Equations with the Zero Product Property	◆																																							◇																
8.5	How Many Solutions?			◆	◆																																				◇																
8.6	Rewriting Quadratic Expressions in Factored Form, Part 1					◆																																																			
8.7	Rewriting Quadratic Expressions in Factored Form, Part 2					◆																																																			
8.8	Rewriting Quadratic Expressions in Factored Form, Part 3					◆																																																			

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Lesson #	Lesson Name	KSS 1							KSS 2									KSS 3								KSS 4			KSS 5			KSS 6			KSS 7			KSS 8		KSS 9					KSS 10						KSS 11		KSS 12				
		A	B	C	D	E	F	G	A	B	C	D	E	F	G	H	I	A	B	C	D	E	F	G	H	A	B	C	A	B	C	A	B	C	A	B	C	A	B	A	B	C	D	E	A	B	C	D	E	F	A	B	A	B	C	D	E
8.9	Solving Quadratic Equations by Using Factored Form		◆				◆	◆																															◇																			
8.10	Rewriting Quadratic Expressions in Factored Form, Part 4																																					◇																		
8.11	Writing Quadratic Equations Given Real Solutions					◆																										◆																								
8.12	Using Technology to Find the Quadratic Regression	◆		◆																																			◆																	
Unit 9: More Quadratic Equations																																																									
9.1	What Are Perfect Squares?		◆		◆																																	◇														◆					
9.2	Completing the Square, Part 1			◆		◆																																◇																			
9.3	Completing the Square, Part 2						◆																															◇																			
9.4	Completing the Square, Part 3					◆																																◇																			
9.5	Quadratic Equations with Irrational Solutions			◆		◆																																◇														◇					
9.6	The Quadratic Formula						◆																															◇														◇					
9.7	Applying the Quadratic Formula		◆		◆		◆	◆																														◇																			
9.8	Deriving the Quadratic Formula		◆	◆			◆	◆																														◇																			
9.9	Writing Quadratics in Different Forms																																																								
9.10	Rewriting Quadratic Expressions in Vertex Form						◆	◆																								◆																									
9.11	Using Quadratic Expressions in Vertex Form to Solve Problems	◆			◆		◆	◆																											◆																					