RAISE Rice Algebra Initiative For Success + Equity

Texas Essential Knowledge and Skills (TEKS) RAISE Dot Chart

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◆ 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	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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		KSS 1							KSS 2								
Lesson #	Lesson Name	A	B	C	D	E	F	G	A	B	C	D	E	F	G	H	I
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																	

	KSS 3								KSS 4			KSS 5			KSS 6		
Lesson #	A	B	C	D	E	F	G	H	A	B	C	A	B	C	A	B	C
3.3											◇						
3.4									◇								
3.5									◆		◇						
3.6										◆							
Unit 4: Functions																	
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4.3																	
4.4																	
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4.7																	
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4.9																	
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4.12																	
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4.14																	
4.15																	
4.16																	
4.17																	
4.18																	
Unit 5: Introduction to Exponential Functions																	
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5.14		◆															
5.15		◆															
Unit 6: Working with Polynomials																	

	KSS 7			KSS 8		KSS 9					KSS 10						KSS 11		KSS 12				
Lesson #	A	B	C	A	B	A	B	C	D	E	A	B	C	D	E	F	A	B	A	B	C	D	E
3.3																							
3.4																							
3.5																							
3.6																							
Unit 4: Functions																							
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4.3																				◇			
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4.15																					◇		
4.16																					◇		
4.17																					◆		
4.18																						◆	
Unit 5: Introduction to Exponential Functions																							
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5.2																		◆					
5.3																							
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5.5						◆	◆		◇														
5.6								◆															
5.7								◇	◇														
5.8							◇	◆															
5.9						◆	◇		◇	◇													
5.10																							
5.11								◇		◆													
5.12								◆	◆														
5.13							◇	◆	◇														
5.14							◇																
5.15							◇																
Unit 6: Working with Polynomials																							

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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
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	◆			◆		◆	◆																								◆																									