

Algebra 1 Math Proficiency Map

Standards Performance Level Descriptors **Need** **Important** **Nice**

Algebra 1	Unit 1 Writing & Solving One-Variable Equations & Inequalities 19 Days Ends Sept 16	Unit 2 Graphing Linear Functions 15 Days Ends Oct 7	Unit 3 Two Variable Linear Equations 21 Days Ends Nov 5	Unit 4 Interpret Key Features of Linear Functions 10 Days Ends 11/19	Unit 5 Systems of Linear Equations 15 Days Ends 12/17	Unit 6 Interpret Key features & graph (w/ tech) Quadratics 20 Days Ends 3/9	Unit 7 Solve and create Quadratics (factoring) 15 Days Ends 4/6	Unit 8 Solve and create Quadratics (quad formula-all forms) 12 Days Ends 4/22	Unit 9 Exponential 20 Days Ends 2
HSN-RN Real Number System								HSN.RN.B.3 (Explain why sum/difference-product/quotient is rational/irrational) HSN.RN.B.4 (Simplify radical expressions)	
HSN-Q Quantities		HSN.Q.A.1(choose, use, int. units and scales)		HSN.Q.A.1(choose, use, int. units and scales) HSN.Q.A.2(appr.quantities/units) HSN.Q.A.3(level of accuracy)	HSN.Q.A.1(choose, use, int. units and scales) HSN.Q.A.2 HSN.Q.A.3	HSN.Q.A.1(choose, use, int. units and scales) HSN.Q.A.2(appr.quantities/units) HSN.Q.A.3(level of accuracy)	HSN.Q.A.1(choose, use, int. units and scales)	HSN.Q.A.1(choose, use, int. units and scales) HSN.Q.A.2(appr.quantities/units)	
HSA-SSE Seeing Structure in Expressions	HSA.SSE.A.1 (interpret in its context)		HSA.SSE.A.1 (interpret in its context)				HSA.SSE.A.1 (interpret in its context) HSA.SSE.A.2 (rewrite expressions) HSA.SSE.B.3.a (Factor Quadratics)	HSA.SSE.A.1 (interpret in its context) HSA.SSE.B.3.b (Prove polynomial identities & use them to describe numerical relat.)	HSA.SSE.A.1 (interpret in its context) HSA.SSE.A.2 (rewrite expressions)
HSA-APR Arithmetic with Polynomials & Rational Expressions	*HSA.APR.A.1 (Add/Sub/Mult Polynomials) HSA.APR.D.7 (Add, subtract, mult. divide by nonzero rational expressions)	HSA.APR.B.3 (Ident. and graph zeros)	HSA.APR.B.3 (Ident. and graph zeros) HSA.APR.D.7 (Add, subtract, mult. divide by nonzero rational expressions)0		HSA.APR.A.1 (Add/Sub/Mult Polynomials) HSA.APR.D.7 (Add, subtract, mult. divide by nonzero rational expressions)	HSA.APR.B.3 (Ident. and graph zeros)	HSA.APR.A.1 (Add/Sub/Mult Polynomials) HSA.APR.B.3 (Ident. and graph zeros) HSA.APR.C.4 (Prove polynomial identities & use them to describe numerical relat.) HSA.APR.D.7 (Add, subtract, mult. divide by nonzero rational expressions)	HSA.APR.D.7 (Add, subtract, mult. divide by nonzero rational expressions)	
HSA-CED Creating Equations	HSA.CED.A.1 (Create eq/ineq one variable) HSA.CED.A.3 (interpret constraints/solutions in real world) HSA.CED.A.4 (Rearrange Literal Eq)		HSA.CED.A.2 (Create/graph two) HSA.CED.A.4 (Rearrange Literal Eq)	HSA.CED.A.3 (interpret constraints/solutions in real world)	HSA.CED.A.2 (Create/graph two) HSA.CED.A.3 (interpret constraints/solutions in real world)	HSA.CED.A.2 (Create/graph two)	HSA.CED.A.2 (Create/graph two) HSA.CED.A.4 (Rearrange Literal Eq)	HSA.CED.A.3 (interpret constraints/solutions in real world) HSA.CED.A.4 (Rearrange Literal Eq)	HSA.CED.A.1 (Create eq/ineq one variable)
HSA-REI Reasoning with Equations & Inequalities	HSA.REI.A.1 (justify solution) HSA.REI.B.3 (Solve Eq./Ineq.)	HSA.REI.D.10(graph of equations are solutions) HSA.REI.D.12 (solve 2 variable and systems of ineq. by graphing)	HSA.REI.A.1 (justify solution)	HSA.REI.A.1 (justify solution) HSA.REI.D.10(graph of equations are solutions)	HSA.REI.A.1 (justify solution) HSA.REI.C.6 (Solving/Graphing Systems) HSA.REI.D.10(graph of equations are solutions) HSA.REI.D.11 (inspections are solutions) HSA.REI.D.12 (solve 2 variable and systems of ineq. by graphing)	HSA.REI.B.4b (Solve quad. equations in 1-variable) HSA.REI.D.10(graph of equations are solutions)	HSA.REI.A.1 (justify solution) HSA.REI.A.2 (Solve simple rational/radical equations in 1 variable) HSA.REI.B.4b (Solve quad. equations in 1-variable) HSA.REI.D.10 (graph of equations are solutions)	HSA.REI.A.1 (justify solution) HSA.REI.A.2 (Solve simple rational/radical equations in 1 variable) HSA.REI.B.4a (Use completing the square method to transform quadratic equations) HSA.REI.B.4b (Solve quad. equations in 1-variable) HSA.REI.C.7 (Solve systems algebraically/graphically)	HSA.REI.C.7 (Solve systems algebraically/graphically) HSA.REI.D.10(graph of equations are solutions) HSA.REI.D.11 (inspections are solutions)
HSF-IF Interpreting Functions		HSF.IF.A.1 (Understand domain & range in a function) HSF.IF.A.2 (Use function notation & evaluate for inputs in their domains) HSF.IF.B.6 (Calculate/interpret/estimate RoC) HSF.IF.C.7 (Graph, showing intercepts, maxima & minima)	HSF.IF.B.6 (Calculate/interpret/estimate RoC) *HSF.IF.C.7 (Graph, showing intercepts, maxima & minima) HSF.IF.C.8 (equ. forms to shoe features) HSF.IF.C.9 (Compare functions)	HSF.IF.A.1 (Understand domain & range in a function) HSF.IF.A.2 (Use function notation & evaluate for inputs in their domains) HSF.IF.B.4 (Interpret & sketch graphs showing key features) HSF.IF.B.5 (Relate the domain of a function to its graph)	HSF.IF.B.6 (Calculate/interpret/estimate RoC)	HSF.IF.A.1 (Understand domain & range in a function) HSF.IF.A.2 (Use function notation & evaluate for inputs in their domains) HSF.IF.B.4 (Interpret & sketch graphs showing key features) HSF.IF.B.6 (Calculate/interpret/estimate RoC) HSF.IF.C.7 (Graph, showing intercepts, maxima & minima) HSF.IF.C.9 (Compare functions)	HSF.IF.B.4 (Interpret & sketch graphs showing key features) HSF.IF.C.7 (Graph, showing intercepts, maxima & minima) HSF.IF.C.8 (equ. forms to shoe features)	HSF.IF.B.5 (Relate the domain of a function to its graph) HSF.IF.C.8 (equ. forms to shoe features)	HSF.IF.A.1 (Understand domain & range in a function) HSF.IF.A.2 (Use function notation & evaluate for inputs in their domains) HSF.IF.A.3 (Recognize sequences are functions) HSF.IF.C.9 (Compare functions)
HSF-BF Building Functions		HSF.BF.B.3 (Transform functions)	HSF.BF.A.1 (Write Functions)			HSF.BF.B.3 (Transform functions)		HSF.BF.A.1 (Write Functions)	

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<p><b>HSF-LE</b> Linear, Quadratic, &amp; Exponential Models</p>									<p><b>HSF.LE.A.1</b> (Distinguish &amp; show the differences between linear &amp; exponential functions)  <b>HSF.LE.A.2</b> (Construct linear &amp; exponential equations)  <b>HSF.LE.A.3</b> (Use graphs &amp; tables to show that a quantity increases exponentially)  <b>HSF.LE.B.5</b> (Interpret rates of growth, decay, &amp; domain &amp; range restrictions)</p>
<p><b>HSS-ID</b> Interpreting categorical &amp; Quantative data</p>		<p><b>HSS.ID.A.1</b> (Represent Data)  <b>HSS.ID.A.2</b> (Compare center &amp; spread of data sets)  <b>HSS.ID.A.3</b> (Outliers)  <b>HSS.ID.B.6</b> (Scatter plots)  <b>HSS.ID.C.7</b> (Interpret slope &amp; the intercept)  <b>HSS.ID.C.8</b> (Interpret correlation coefficient)  <b>JSS.ID.C.9</b> (Correlation &amp; causation)</p>	<p><b>HSS.ID.B.5</b> (Summarize categorical data in 2-way tables)</p>	<p><b>HSS.ID.C.7</b> (Interpret slope &amp; the intercept)  <b>HSS.ID.C.8</b> (Interpret correlation coefficient)  <b>JSS.ID.C.9</b> (Correlation &amp; causation)</p>		<p><b>HSS.ID.A.1</b> (Represent Data)  <b>HSS.ID.A.2</b> (Compare center &amp; spread of data sets)  <b>HSS.ID.A.3</b> (Outliers)  <b>HSS.ID.B.6</b> (Scatter plots)</p>			<p><b>HSS.ID.A.1</b> (Represent Data)  <b>HSS.ID.A.2</b> (Compare center &amp; spread of data sets)  <b>HSS.ID.A.3</b> (Outliers)  <b>HSS.ID.B.6</b> (Scatter plots)</p>

Need to Know

Important to know

Nice to Know

\*partially addressed in unit