

TIPTON COUNTY CURRICULUM GUIDE
ALGEBRA I
 Pearson ALGEBRA I

FIRST NINE WEEKS

Textbook Section	Objective	Common Core State Standards
1.1	Variables and Expressions	*A-CED.A.1, A.SSE.A.1a,
1.2	Order of Operations and Evaluating Expressions	*A-CED.A.1, A.SSE.A.1a,
1.7	The Distributive Property	*A-CED.A.1, A.SSE.A.1a,
1.8	An Introduction to Equations	*A-CED.A.1,
1.9	Patterns, Equations and Graphs	A.REI.D.5, A.CED.A.2

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2.1	Solving One-Step Equations	*A.CED.A.1, *A-REI.B.2
2.2	Solving Two-Step Equations	*A.CED.A.1, *A-REI.B.2, *REI.A.1
2.3	Solving Multi-Step Equations	*A.CED.A.1, *A-REI.B.2, *REI.A.1
2.4	Solving Equations With Variables on Both Sides	*A.CED.A.1, *A-REI.B.2, *REI.A.1
*2.5	Literal Equations and Formulas	A-SSE.A.1, N-Q.A.1, *A-CED.A.4, *A-CED.A.1, *A-REI.B.2, * A. REI.A.1
2.6	Ratios, Rates, and Conversions	N-Q.A.1, *N-Q.A.2
2.7	Solving Proportions	N-Q.A.1, *A-CED.A.1, *A-REI.B.2
2.8	Proportions and Similar Figures	*A-CED.A.1, *A-REI.B.2
2.9&2.10	Percents & Change Expressed as a Percent	N-Q.A.3

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Textbook Section	Objective	Common Core State Standards
3.1	Inequalities and Their Graphs	*A-CED.A.1, *A-REI.B.2
3.2	Solving Inequalities Using Addition or Subtraction	*A-CED.A.1, *A-REI.B.2
3.3	Solving Inequalities Using Multiplication or Division	*A-CED.A.1, *A-REI.B.2, * N-Q.A.2
3.4	Solving Multi-Step Inequalities	*A-CED.A.1, *A-REI.B.2
3.6	Compound Inequalities	*A-CED.A.1, *A-REI.B.2
3.7	Absolute Value Equations and Inequalities	*A-SSE.A.1, A-SSE.A.1b

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Textbook Section	Objective	Common Core State Standards
4.1	Using Graphs to Relate Two Quantities	*F-IF.B.3
4.2	Patterns and Linear Functions	A-REI.D.5, *F-IF.B.3
4.3	Patterns and Nonlinear Functions	A-REI.D.5, *F-IF.B.3
4.4	Graphing a function Rule	N-Q.A.1, A-REI.D.5, F-IF.B.5
CB 4.4	Graphing Functions and Solving Equations	A.REI.D.6
4.5	Writing a Function Rule	N-Q.A.2, A-SSE.A.1,A-SSE.A.1a, A-CED.A.2
4.6	Formalizing Relations and Functions	F-IF.A.1, F-IF.A.2
4.7	Arithmetic Sequences	A-SSE.A.1, A-SSE.A.1a, A-SSE.A.1b, F-IF.B.4, *F-BF.A.1, *F-BF.A.1a, *F-LE.A.2

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Textbook Section	Objective	Common Core State Standards
5.1	Rate of Change and slope	*F-IF.B.5, F-LE.A.1b
5.2	Direct Variation	*N-Q.A.2, A-CED.A.2
5.3	Slope-Intercept Form	A-SSE.A.1a, *A-SSE.A.2, A-CED.A.2, *F-IF.B.3, F-IF.C.6a, *F-BF.A.1a, * F-BF.B.2,* F-LE.A.2, * F-LE.B.4, *F-IF.c.7, *F-BF.B.2
5.4	Point-Slope Form	A-SSE.A.1a, *A-SSE.A.2, A-CED.A.2, *F-IF.B.3, *F-IF.C.6a,* F-BF.A.1a, *F-BF.B.2, *F-LE.A.2, *F-LE.B.4, *F-IF.C.7
5.5	Standard Form	*N-Q.A.2, A-SSE.A.1, *A-SSE.A.2, A-CED.A.2, *F-IF.B.3, *F-IF.C.6a, *F-IF.C.8, *F-BF.A.1a, *F-LE.A.2, *F-LE.B.4, *F-IF.C.7, *F-IF.C.8
5.7	Scatter Plots and Trend Lines	N-Q.A.1, *F-LE.B.4, *S-ID.B.4a, S-ID.B.4b, S-ID.C.5, S-ID.C.6, S-ID.C.7, *F-IF.C.7
5.8	Graphing Absolute Value Functions	F-IF.C.6.b, F-BF.B.3, *F-IF.C.7
CH 5.8	Using Residuals	*F-IF.C.6b

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Textbook Section	Objective	Common Core State Standards
6.1	Solving Systems by Graphing	*A-REI.C.4
CB 6.1	Solving Systems Using Tables and Graphs	*A-REI.C.4
6.2	Solving Systems Using Substitution	*A-REI.C.4
6.3	Solving Systems Using Elimination	*A-REI.C.4
6.4	Applications of Linear Systems	N-1.A.2, N-Q.A.3, A-CED.A.3, *A-REI.C.4
6.5	Linear Inequalities	A-CED.A.3, A-REI.D.7
6.6	Systems of Linear Inequalities	A-REI.D.7
CB 6.6	Graphing Linear Inequalities	A-REI.D.7

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Textbook Section	Objective	Common Core State Standards
7.1	Zero and Negative Exponents	*Prerequisite for A-SSE.B.3
7.2	Multiplying Powers with the Same Base	*Prerequisite for A-SSE.B.3
7.3	More Multiplication Properties of Exponents	*Prerequisite for A-SSE.B.3
7.4	Division Properties of Exponents	*Prerequisite for A-SSE.B.3
7.6	Exponential Functions	*A-SSE.B.3c, A-CED.A.2, A-REI.D.11,* F-IF.B.3, F-IF.B.4, F-IF.C.6a,* F-IF.C.8, F-LE.A.2
7.7	Exponential Growth and Decay	A-SSE.A.1a&b *A-SSE.B.3c, A-CED.A.2, *F-IF.B.3, F-IF.C.6a, F-IF.C.7,* F-BF.A.1a, F-BF.B.2, F-LE.A.1c, *F-LE.B.4
7.8	Geometric Sequences	A-SSE.A.1a, * F-LE.A.2

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THIRD NINE WEEKS

Textbook Section	Objective	Common Core State Standards
8.1	Adding and Subtracting Polynomials	A-APR.A.1
8.2	Multiply and Factoring	A-APR.A.1
8.3	Multiply Binomials	A-APR.A.1
8.4	Multiply Special Cases	A-APR.A.1
8.5	Factoring $x^2 + bx + c$	A-SSE.A.1a
8.6	Factoring $ax^2 + bx + c$	A-SSE.A.1a, A-SSE.A.1b
8.7	Factoring Special Cases	A-SSE.A.1, A-SSE.A.1a, A-SSE.A.1b, *A-SSE.A.2
8.8	Factoring by Grouping	A-SSE.A.1a, * A-SSE.A.2

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Textbook Section	Objective	Common Core State Standards
9.1	Quadratic Graphs and Their properties	*A-CED.A.1,A-CED.A.2,* F-IF.B.3, F-IF.B.4, F-IF.C.6a,* F-IF.C.6b, *F-BF.B.2
9.2	Quadratic Functions	A-CED.A.2, *F-IF.B.3,* F-IF.C.7a, F-IF.C.6a, *F-IF.C.8,*F-BF.A.1, *F-BF.B.2
CB 9.2	Rates of Increase	A-F.IF.B.5, A-F.LE.A.3
9.3	Solving Quadratic Equations	*A-CED.A.1,* A-CED.A.4,* A-REI.A.1, A-APR.B.2, A *A-REI.B.3b
CB 9.3	Finding Roots	*A-REI.B.3b, A-FIF.C.6a
9.4	Factoring to Solve Quadratic Equations	* A-SSE.B.3a,*A-CED.A.1, A-CED.A.2*A-RE.B.3b, * F-IF.C.7a
CB 9.4	Writing Quadratic Equations	A-CED.A.2
*9.5	Completing the Square	A-SSE.A.1a, A-SSE.A.1b, A-SSE.B.3,*A-SSE.B.3b, *A-CED.A.1,*A-REI.A.1, A-REI.B.3a,*A-REI.B.3b, F-IF.C.7a, N-Q.A.3
9.6	The Quadratic Formula and Discriminant	N-Q.A.3, *A-CED.A.1, A-REI.B3a, *A-REI.B.3b,

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9.7	Linear, Quadratic, and Exponential Models	,*F-BF.A.1, F-LE.A.1a,* F-LE.A.2, F-LE.A.3, *S-ID.B.4a
9.8	Systems of Linear and Quadratic Equations	A-CED.A.3

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FORTH NINE WEEKS

Textbook Section	Objective	Common Core State Standards
10.5	Graphing Square Root Functions	A-CED.A.2, F-IF.C.6b, *F-IF.C.7a
11.5	Solving Rational Equations	*A-CED.A.1
11.6	Inverse Variation	A-CED.A.2, F-IF.B.4
11.7	Graphing Rational Functions	A-CED.A.2, *A-F-IF.B.3,
CB 11.7	Graphing Rational Functions	A-CED.A.2,
12.2	Frequency and Histograms	N-Q.A.1, S-ID.A.1
12.3	Measures of Central Tendency and Dispersion	*N-Q.A.2, S-ID.A.2, S-ID.A.3
CB 12.3	Standard Deviation	, S-ID.A.2
12.4	Box-and-Whisker Plots	N-Q.A.1, S-ID.A.1, S-ID.A.2
	Review for TNReady	

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The majority of the TNReady Standards have the same number as Common Core. Below are the TNReady Standards and the corresponding Common Core Standard. This will help when using Common Core resources and Mastery Connect. An * will indicate the Power Standards.

TNREADY STANDARD NUMBER	COMMON CORE NUMBER
A1.N.Q.A.1	N-Q.A.1
*A1.N.Q.A.2	N-Q.A.2
A1.N.Q.A.3	N-Q.A.3
A1.A.SSE.A.1a	A-SSE.A.1a
A1.A.SSE.A.1b	A-SSE.A.1b
*A.1.A.SS3.A.2	A-SSE.A.2
*A1.A.SSE.B.3a	A-SSE.B.3a
*A1.A.SSE.B.3b	A-SSE.B.3b
*A1.A.SSE.B.3c	A-SSE.B.3c
A1.A.APR.A.1	A-APR.A.1
*A1.A.APR.B.2	A-APR.B.3
*A1.A.CED.A.1	A-CED.A.1
A1.A.CED.A.2	A-CED.A.2
A1.A.CED.A.3	A-CED.A.3
*A1.A.CED.A.4	A-CED.A.4
*A1.A.REI.A.1	A-REI.A.1
*A1.A.REI.B.2	A-REI.B.3
*A1.A.REI.B.3	A-REI.B.4
A1.A.REI.B.3a	A-REI.B.4a
*A1.A.REI.B.3b	A-REI.B.4b
*A1.A.REI.C.4	A-REI.C.5 AND A-REI.C.6
A1.A.REI.D.5	A-REI.D.10

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TNREADY STANDARD NUMBER	COMMON CORE NUMBER
*A1.A.REI.D.6	A-REI.D.11
A1.A.REI.D.7	A-REI.D.12
A1.F.IF.A.1	F-IF.A.1
A1.F.IF.A.2	F-IF.A.2
*A1.F.IF.B.3	F-IF.B.4
A1.F.IF.B.4	F-IF.B.5
*A1.F.IF.B.5	F-IF.B.6
*A1.F.IF.C.6	F-IF.C.7
A1.F.IF.C.6a	F-IF.C.7a
*A1.F.IF.C.6b	F-IF.C.7b
*A1.F.IF.C.7a	F-IF.C.8a
*A1.F.IF.C.8	F-IF.C.9
*A1.F.BF.A.1	F-BF.A.1
*A1.F.BF.A.1a	F-BF.A.1a
A1.F.BF.B.2	F-BF.B.3
A1.F.LE.A.1	F-LE.A.1
A1.F.LE.A.1a	F-LE.A.1a
A1.F.LE.A.1b	F-LE.A.1b
A1.F.LE.A.1c	F-LE.A.1c
*A1.F.LE.A.2	F-LE.A.2
A1.F.LE.A.E	F-LE.A.3
*F.LE.B.4	F-LE.B.5
A1.S.ID.A.1	S-ID.A.1
A1.S.ID.A.2	S-ID.A.2
A1.S.ID.A.3	S-ID.A.3
*A1.S.ID.B.4	S-ID.B.6

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TNREADY STANDARD NUMBER	COMMON CORE NUMBER
*A1.S.ID.B.4a	S-ID.B.6a
A1.S.ID.B.4b	S-ID.B.6b
A1.S.ID.C.5	S-ID.C.7
A1.S.ID.C.6	S-ID.C.8
A1.S.ID.C.7	S-ID.C.9

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