Standards Correlations

Each lesson in this program was written specifically to address the North Carolina Standard Course of Study (NCSCOS) for Mathematics. Each unit lists the standards covered in all the lessons, and each lesson lists the standards addressed in that particular lesson. In this section, you'll find a comprehensive list mapping the lessons to the NCSCOS.

As you use this program, you will come across a star symbol (⋆) included with the standards for some of the lessons and activities. This symbol is explained below.

Symbol: ⋆

Denotes: Modeling Standards

Modeling is best interpreted not as a collection of isolated topics but rather in relation to other standards. Making mathematical models is a Standard for Mathematical Practice, and specific modeling standards appear throughout the high school standards indicated by a star symbol (⋆).

From http://www.walch.com/CCSS/00003

NORTH CAROLINA MATH 1 STANDARDS CORRELATIONS

Unit 1: Introduction to Functions and Equations			
Lesson	**Title**	**Standard(s)**	**Pages**
1.1	Identifying Terms, Factors, and Coefficients	A–SSE.1a★	U1-1
1.2	Creating Linear Equations in One Variable	A–CED.1★	U1-22
1.3	Rearranging Formulas	A–CED.4★	U1-53
1.4	Properties of Equality	A–REI.1	U1-72
1.5	Solving Linear Equations	A–REI.3	U1-98
1.6	Solving Linear Inequalities	A–REI.3	U1-122
1.7	Creating Linear Inequalities in One Variable	A–CED.1★	U1-142
1.8	Domain and Range	F–IF.1	U1-167
1.9	Function Notation and Evaluating Functions	F–IF.2	U1-199
1.10	Identifying Key Features of Linear and Exponential Graphs	F–IF.4★, F–IF.5★	U1-224

NORTH CAROLINA MATH 1 STANDARDS CORRELATIONS

Unit 2: Linear Functions			
Lesson	**Title**	**Standard(s)**	**Pages**
2.1	Parts of Expressions	A–SSE.1a★	U2-1
2.2	Interpreting Linear Expressions	A–SSE.1b★	U2-2
2.3	Connecting Graphs and Equations of Linear Functions	F–IF.6★	U2-24
2.4	Finding the Slope or Rate of Change of Linear Functions	F–IF.6★	U2-48
2.5	Calculate and Interpret the Average Rate of Change	F–IF.6★	U2-75
2.6	Interpreting Parameters	F–LE.5★	U2-98
2.7	Graphing the Set of All Solutions	A–REI.10	U2-120
2.8	Graphing Linear Equations in Two Variables	A–CED.2★	U2-150
2.9	Solving Linear Inequalities in Two Variables	A–REI.12	U2-196
2.10	Key Features of Linear Functions	F–IF.4★	U2-231
2.11	Graphing Linear Functions	F–IF.7★	U2-254
2.12	Comparing Linear Functions	F–IF.9	U2-285
2.13	Building Functions from Context	F–BF.1a★	U2-320
2.14	Arithmetic Sequences	F–BF.2★	U2-348

NORTH CAROLINA MATH 1 STANDARDS CORRELATIONS

Unit 3: Modeling with Linear Functions			
Lesson	**Title**	**Standard(s)**	**Pages**
3.1	Solving Problems Given Functions Fitted to Data	S–ID.6a★	U3-1
3.2	Calculating and Interpreting the Correlation Coefficient	S–ID.8★	U3-32
3.3	Analyzing the Slope and *y*-intercept of Linear Graphs from Data	S–ID.7★	U3-61
3.4	Analyzing Residuals	S–ID.6b★	U3-97
3.5	Distinguishing Between Correlation and Causation	S–ID.9★	U3-132

Unit 4: Connecting Algebra and Geometry on the Coordinate Plane			
Lesson	**Title**	**Standard(s)**	**Pages**
4.1	Working with Parallel and Perpendicular Lines	G–GPE.5	U4-1
4.2	Finding Midpoints and Endpoints of Line Segments	G–GPE.6	U4-28
4.3	Calculating Perimeter and Area	G–GPE.4	U4-49
4.4	Using Coordinates to Prove Geometric Theorems with Slope and Distance	G–GPE.4, G–GPE.5	U4-89

Unit 5: Systems of Equations and Inequalities			
Lesson	**Title**	**Standard(s)**	**Pages**
5.1	Intersecting Graphs	A–REI.11★	U5-1
5.2	Representing Constraints	A–CED.3★	U5-38
5.3	Solving Systems of Linear Inequalities	A–REI.12	U5-64
5.4	Solving Systems of Linear Equations by Graphing	A–REI.5, A–REI.6	U5-100
5.5	Solving Systems of Linear Equations by Substitution and Elimination	A–REI.5	U5-131

NORTH CAROLINA MATH 1 STANDARDS CORRELATIONS

Unit 6: Exponential Functions			
Lesson	**Title**	**Standard(s)**	**Pages**
6.1	Creating Exponential Equations	A–CED.1★	U6-1
6.2	Graphing Exponential Equations in Context	F–IF.4★, F–IF.5★	U6-30
6.3	Exponential Rate of Change	F–IF.6★	U6-54
6.4	Interpreting Linear and Exponential Functions	A–SSE.1a★, A–SSE.1b★	U6-80
6.5	Creating and Graphing Exponential Equations	A–CED.2★	U6-102
6.6	Graphing Exponential Functions	F–IF.7★	U6-131
6.7	Analyzing Exponential Functions	F–IF.7★	U6-163
6.8	Comparing Exponential Functions	F–IF.9	U6-186
6.9	Building Functions Including Parameters	F–BF.1a★, F–LE.5★	U6-225
6.10	Domain and Range of Exponential Functions	F–IF.2	U6-254
6.11	Geometric Sequences	F–BF.2★	U6-275
6.12	Fitting Exponential Functions to Data	S–ID.6c★	U6-296
6.13	Comparing Linear to Exponential Functions	F–LE.3★	U6-322
6.14	Applying the Properties of Integer Exponents	N–RN.2	U6-350
6.15	Solving Exponential Equations	A–REI.1	U6-366

NORTH CAROLINA MATH 1 STANDARDS CORRELATIONS

Unit 7: Polynomial Operations and Quadratic Functions			
Lesson	**Title**	**Standard(s)**	**Pages**
7.1	Adding and Subtracting Polynomials	A–APR.1	U7-1
7.2	Multiplying Polynomials	A–APR.1	U7-19
7.3	Factoring Expressions by the Greatest Common Factor	A–SSE.3★	U7-36
7.4	Factoring Expressions with $a = 1$	A–SSE.3★	U7-55
7.5	Factoring Expressions with $a > 1$	A–SSE.3★	U7-79
7.6	Zero Product Property	A–CED.1★, A–REI.4	U7-104
7.7	Taking the Square Root of Both Sides	A–CED.1★, A–REI.4	U7-105
7.8	Solving Quadratic Equations by Factoring	A–SSE.3★, A–CED.1★, A–REI.4	U7-126
7.9	Interpreting Various Forms of Quadratic Functions	F–IF.7★, F–IF.8a	U7-146
7.10	Identifying the Average Rate of Change	F–IF.6★	U7-174
7.11	Creating and Graphing Equations Using Standard Form	A–APR.3, A–SSE.1★	U7-200
7.12	Creating and Graphing Equations Using the *x*-intercepts	A–SSE.3★, A–CED.2★	U7-232
7.13	Comparing Models	F–IF.9	U7-254

Unit 8: Statistics			
Lesson	**Title**	**Standard(s)**	**Pages**
8.1	Representing Data Sets	S–ID.1★	U8-1
8.2	Comparing Data Sets	S–ID.2★	U8-43
8.3	Interpreting Data Sets	S–ID.3★	U8-78