

PROGRAM OVERVIEW

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>

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NORTH CAROLINA MATH 2 STANDARDS CORRELATIONS

Unit 1: Transformations

Lesson	Title	Standard(s)	Pages
1.1	Proving the Vertical Angles Theorem	G-CO.9	U1-1
1.2	Proving Theorems About Angles in Parallel Lines Cut by a Transversal	G-CO.9	U1-35
1.3	Proving the Interior Angle Sum Theorem	G-CO.10	U1-70
1.4	Proving Theorems About Isosceles Triangles	G-CO.10	U1-103
1.5	Proving the Midsegment of a Triangle	G-CO.10	U1-135
1.6	Function Notation and Evaluating Functions	F-IF.2	U1-175
1.7	Translations on the Plane	G-CO.2, G-CO.4, G-CO.5	U1-199
1.8	Reflections on the Plane	G-CO.2, G-CO.4, G-CO.5	U1-227
1.9	Rotations on the Plane	G-CO.2, G-CO.4, G-CO.5	U1-257
1.10	Applying Lines of Symmetry	G-CO.3	U1-284
1.11	Dilations on the Plane	G-SRT.1a	U1-311
1.12	Defining Congruence in Terms of Rigid Motions	G-CO.6	U1-344
1.13	Transformations and Rigid Motions	G-CO.6	U1-383
1.14	Perpendicular Bisectors and Angle Bisectors	G-CO.9	U1-409
1.15	Triangle Congruency	G-CO.7	U1-410
1.16	Explaining ASA, SAS, and SSS	G-CO.8	U1-445

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Unit 2: Graphing Quadratic Functions

Lesson	Title	Standard(s)	Pages
2.1	Identifying the Domain and Range of a Quadratic Function	F-IF.4*	U2-1
2.2	Identifying Terms, Factors, and Coefficients	A-SSE.1a*	U2-22
2.3	Interpreting Complicated Expressions	A-SSE.1b*	U2-44
2.4	Quadratic Modeling	A-CED.2*, F-BF.1*	U2-67
2.5	Interpreting Key Features of Quadratic Functions	F-IF.4*	U2-93
2.6	Interpreting Various Forms of Quadratic Functions	F-IF.8	U2-122
2.7	Comparing Properties of Quadratic Functions Given in Different Forms	F-IF.9	U2-159
2.8	Replacing $f(x)$ with $f(x) + k$ and $f(x + k)$	F-BF.3	U2-180
2.9	Replacing $f(x)$ with $k \cdot f(x)$ and $f(k \cdot x)$	F-BF.3	U2-210
2.10	Interpreting Quadratic Functions	F-IF.4*	U2-244
2.11	Quadratic Regression	A-CED.2*	U2-282

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Unit 3: Solving Quadratic Equations

Lesson	Title	Standard(s)	Pages
3.1	Rational and Irrational Numbers and Their Properties	N–RN.3	U3-1
3.2	Adding and Subtracting Polynomials	A–APR.1	U3-27
3.3	Multiplying Polynomials	A–APR.1	U3-47
3.4	Factoring	A–REL.4b	U3-69
3.5	Simplifying Radicals with Numbers	N–RN.2	U3-91
3.6	Defining Complex Numbers, i , and i^2	N–CN.1	U3-108
3.7	Solving Quadratics by Completing the Square	A–REL.4a	U3-127
3.8	Applying the Quadratic Formula	A–REL.4b	U3-149
3.9	Solving Systems Algebraically	A–REL.7	U3-169
3.10	Solving Systems Graphically	A–REL.7	U3-195

Unit 4: Square Root and Inverse Variation Functions

Lesson	Title	Standard(s)	Pages
4.1	Evaluating Negative Exponents	N–RN.2	U4-1
4.2	Working with Radicals and Properties of Real Numbers	N–RN.1, N–RN.2	U4-16
4.3	Operating with Rational Exponents and Converting with Radicals	N–RN.1, N–RN.2	U4-47
4.4	Solving Radical Equations	A–REL.2	U4-69
4.5	Inverse Variation	F–BF.1*, A–REL.2, A–REL.11*	U4-101
4.6	Radical Functions	F–IF.7*, F–IF.9, F–BF.3	U4-123
4.7	Inverse Variation Functions	F–IF.4*, F–IF.7*, F–IF.9	U4-164

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Unit 5: Similarity, Right Triangles, and Congruence

Lesson	Title	Standard(s)	Pages
5.1	Defining Similarity	G-SRT.2	U5-1
5.2	Applying Similarity Using the Angle-Angle (AA) Criterion	G-SRT.3	U5-36
5.3	Proving Triangle Similarity Using Side-Angle-Side (SAS) and Side-Side-Side (SSS) Similarity	G-SRT.4	U5-61
5.4	Working with Ratio Segments	G-SRT.4	U5-92
5.5	Proving the Pythagorean Theorem Using Similarity	G-SRT.4	U5-119
5.6	Special Right Triangles	G-SRT.12	U5-157
5.7	Defining Trigonometric Ratios	G-SRT.6	U5-176
5.8	Calculating Sine, Cosine, and Tangent	G-SRT.8*	U5-215
5.9	Applying the Pythagorean Theorem	G-SRT.8*	U5-250
5.10	Problem Solving with the Pythagorean Theorem and Trigonometry	G-SRT.8*	U5-270

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Unit 6: Probability

Lesson	Title	Standard(s)	Pages
6.1	Describing Events	S-CP.1*	U6-1
6.2	Using Simulation	S-IC.2*	U6-39
6.3	The Addition Rule	S-CP.7*	U6-75
6.4	Conditional Probability and the General Multiplication Rule	S-CP.8*	U6-95
6.5	Introducing Conditional Probability	S-CP.3*, S-CP.5*, S-CP.6*	U6-114
6.6	Using Two-Way Frequency Tables	S-CP.4*, S-CP.5*, S-CP.6*	U6-149
6.7	Understanding Independent Events	S-CP.3b*	U6-177