



## Alignment Overview Table for Common Core State Standards for Mathematics and NES Mathematics

Common Core Domains/Standards [K–12]		
<b>CC</b> Counting and Cardinality <b>OA</b> Operations and Algebraic Thinking <b>NBT</b> Number and Operations in Base Ten <b>MD</b> Measurement and Data <b>G</b> Geometry <b>NF</b> Number and Operations—Fractions <b>RP</b> Ratios and Proportional Relationships <b>NS</b> The Number System <b>EE</b> Expressions and Equations <b>SP</b> Statistics and Probability <b>F</b> Functions	<b>N-CN</b> The Complex Number System <b>N-VM</b> Vector and Matrix Quantities  <div style="text-align: center; background-color: #e0e0e0; padding: 2px;"><b>Algebra</b></div> <b>A-SSE</b> Seeing Structure in Expressions <b>A-APR</b> Arithmetic with Polynomials <b>A-CED</b> Creating Equations <b>A-REI</b> Reasoning with Equations and Inequalities  <div style="text-align: center; background-color: #e0e0e0; padding: 2px;"><b>Functions</b></div> <b>F-IF</b> Interpreting Functions <b>F-BF</b> Building Functions <b>F-LE</b> Linear, Quadratic, and Exponential Models <b>F-TF</b> Trigonometric Functions	<div style="background-color: #e0e0e0; padding: 2px; margin-bottom: 5px;"><b>Geometry</b></div> <b>G-CO</b> Congruence <b>G-SRT</b> Similarity, Right Triangles, and Trigonometry <b>G-C</b> Circles <b>G-GPE</b> Expressing Geometric Properties with Equations <b>G-GMD</b> Geometric Measurement and Dimension <b>G-MG</b> Modeling with Geometry  <div style="background-color: #e0e0e0; padding: 2px; margin-bottom: 5px;"><b>Statistics and Probability</b></div> <b>S-ID</b> Interpreting Categorical and Quantitative Data <b>S-IC</b> Making Inferences and Justifying Conclusions <b>S-CP</b> Conditional Probability and the Rules of Probability
<b>Number and Quantity</b>		
<b>N-RN</b> The Real Number System <b>N-Q</b> Quantities		

NES Mathematics Competencies		
<b>0001</b> Understand mathematical problem solving. <b>0002</b> Understand mathematical communication, connections, and reasoning <b>0003</b> Understand number theory. <b>0004</b> Understand relations and functions. <b>0005</b> Understand linear, quadratic, and higher-order polynomial functions. <b>0006</b> Understand exponential and logarithmic functions.	<b>0007</b> Understand rational, radical, absolute value, and piece-wise defined functions. <b>0008</b> Understand measurement principles and procedures. <b>0009</b> Understand Euclidean geometry in two and three dimensions. <b>0010</b> Understand coordinate and transformational geometry. <b>0011</b> Understand trigonometric functions. <b>0012</b> Understand differential calculus.	<b>0013</b> Understand integral calculus. <b>0014</b> Understand principles and techniques of statistics. <b>0015</b> Understand principles and techniques of probability. <b>0016</b> Understand principles of discrete mathematics.

**For more information about the NES, visit [www.nestest.com](http://www.nestest.com)**

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### Important Notes About the Alignment Overview Table:

- Four-digit numbers (e.g., 0004) correspond to NES competency number identifiers. In each cell, the NES competencies that align to the Common Core State Standards (CCSS) in the domain at the grade level are indicated.
- Cells are shaded yellow or grey to indicate whether CCSS domains/strands exist for the associated grade level.
- CCSS domains/strands do not exist at certain grade levels.
- When there is no alignment between the CCSS and NES competencies, a dash ("-") appears in the cell.
- When a CCSS does not apply to one or more competencies, "n/a" appears in the cell.

Common Core domains/standards exist at the grade level.  Common Core domains/standards DO NOT exist at the grade level.

	Grade Level												
	K	1	2	3	4	5	6	7	8	9	10	11	12
CC	-												
OA	-	-	-	-	0001, 0002, 0003	0002, 0003							
NBT	-	-	-	-	0001	0001, 0002, 0003							
MD	-	-	-	0002, 0008	0001, 0008, 0009	0001, 0002, 0003, 0008							
G	-	-	-	0009	0009, 0010	0009, 0010	0008, 0009, 0010	0002, 0004, 0005, 0008, 0009	0002, 0008, 0009, 0010				
NF				-	0001	0001, 0002, 0003, 0007, 0008							
RP							0001, 0002, 0008	0001, 0002, 0005, 0009, 0010					
NS							0001, 0002, 0003, 0007, 0010	0001, 0002, 0003	0001, 0002, 0003				
EE							0002, 0003, 0004, 0008	0001, 0002, 0003, 0004, 0005	0001, 0002, 0003, 0005, 0008, 0009				
SP								0002, 0014, 0015	0002, 0005, 0014				
F									0002, 0004, 0005				



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		Grade Level												
		K	1	2	3	4	5	6	7	8	9	10	11	12
Common Core Domains/Standards	N-RN										0001, 0002, 0003	0001, 0002, 0003	0001, 0002, 0003	0001, 0002, 0003
	N-Q										0008	0008	0008	0008
	N-CN										0002, 0003, 0005, 0010	0002, 0003, 0005, 0010	0002, 0003, 0005, 0010	0002, 0003, 0005, 0010
	N-VM										0002, 0003, 0010, 0016	0002, 0003, 0010, 0016	0002, 0003, 0010, 0016	0002, 0003, 0010, 0016
	A-SSE										0002, 0005, 0006, 0007, 0016	0002, 0005, 0006, 0007, 0016	0002, 0005, 0006, 0007, 0016	0002, 0005, 0006, 0007, 0016
	A-APR										0002, 0003, 0005, 0007	0002, 0003, 0005, 0007	0002, 0003, 0005, 0007	0002, 0003, 0005, 0007
	A-CED										0002, 0004, 0005, 0006, 0007	0002, 0004, 0005, 0006, 0007	0002, 0004, 0005, 0006, 0007	0002, 0004, 0005, 0006, 0007
	A-REI										0002, 0003, 0004, 0005, 0006, 0007	0002, 0003, 0004, 0005, 0006, 0007	0002, 0003, 0004, 0005, 0006, 0007	0002, 0003, 0004, 0005, 0006, 0007
	F-IF										0001, 0002, 0004, 0005, 0006, 0007, 0011, 0016	0001, 0002, 0004, 0005, 0006, 0007, 0011, 0016	0001, 0002, 0004, 0005, 0006, 0007, 0011, 0016	0001, 0002, 0004, 0005, 0006, 0007, 0011, 0016
	F-BF										0002, 0004, 0005, 0006, 0007, 0016	0002, 0004, 0005, 0006, 0007, 0016	0002, 0004, 0005, 0006, 0007, 0016	0002, 0004, 0005, 0006, 0007, 0016
	F-LE										0002, 0005, 0006, 0016	0002, 0005, 0006, 0016	0002, 0005, 0006, 0016	0002, 0005, 0006, 0016
	F-TF										0004, 0010, 0011	0004, 0010, 0011	0004, 0010, 0011	0004, 0010, 0011
	G-CO										0002, 0009, 0010	0002, 0009, 0010	0002, 0009, 0010	0002, 0009, 0010
	G-SRT										0002, 0008, 0009, 0010, 0011	0002, 0008, 0009, 0010, 0011	0002, 0008, 0009, 0010, 0011	0002, 0008, 0009, 0010, 0011
	G-C										0001, 0002, 0009	0001, 0002, 0009	0001, 0002, 0009	0001, 0002, 0009
	G-GPE										0002, 0005, 0008, 0009	0002, 0005, 0008, 0009	0002, 0005, 0008, 0009	0002, 0005, 0008, 0009
	G-GMD										0002, 0008, 0009	0002, 0008, 0009	0002, 0008, 0009	0002, 0008, 0009
	G-MG										0001, 0008, 0009	0001, 0008, 0009	0001, 0008, 0009	0001, 0008, 0009

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	K	1	2	3	4	5	6	7	8	9	10	11	12
<b>S-ID</b>										0002, 0004, 0005, 0014	0002, 0004, 0005, 0014	0002, 0004, 0005, 0014	0002, 0004, 0005, 0014
<b>S-IC</b>										0014, 0015	0014, 0015	0014, 0015	0014, 0015
<b>S-CP</b>										0014, 0015, 0016	0014, 0015, 0016	0014, 0015, 0016	0014, 0015, 0016
<b>S-MD</b>										0002, 0015	0002, 0015	0002, 0015	0002, 0015