

## 2016 Mathematics Vertical Articulation Grades K – Algebra II SOL by Strand Concepts

NNS = Number and Number Sense; C&E = Computation and Estimation; M&G = Measurement and Geometry; P&S = Probability and Statistics; PFA = Patterns, Functions, and Algebra

NNS- STRAND CONCEPT	Grade K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Related to Algebra I	Related to Geometry	Related to Algebra II
Number Identification and Representation	<a href="#">K.1ab</a> ; <a href="#">K.3abcd</a> ; <a href="#">K.4ab</a>	<a href="#">1.1abcd</a> ; <a href="#">1.2a</a> ; <a href="#">1.3</a> ; <a href="#">1.5ab</a>	<a href="#">2.1ab</a> ; <a href="#">2.2ab</a> ; <a href="#">2.3ab</a>	<a href="#">3.1a</a>	<a href="#">4.1a</a>							
Whole Number and Decimal Rounding			<a href="#">2.1d</a>	<a href="#">3.1b</a>	<a href="#">4.1c</a> ; <a href="#">4.3b</a>	<a href="#">5.1</a>						
Rational Numbers - Compare and Order	<a href="#">K.2ab</a>	<a href="#">1.2bc</a>	<a href="#">2.1c</a> ; <a href="#">2.4c</a>	<a href="#">3.1c</a> ; <a href="#">3.2c</a>	<a href="#">4.1b</a> ; <a href="#">4.2a</a> ; <a href="#">4.3c</a>	<a href="#">5.2b</a>	<a href="#">6.2b</a> ; <a href="#">6.3b</a>	<a href="#">7.1bc</a>	<a href="#">8.1</a>			
Rational Number Equivalencies	<a href="#">K.5</a>	<a href="#">1.4ab</a>	<a href="#">2.4ab</a>	<a href="#">3.2ab</a>	<a href="#">4.2bc</a> ; <a href="#">4.3ad</a>	<a href="#">5.2a</a>	<a href="#">6.1</a> ; <a href="#">6.2a</a>					
Number Sets and Characteristics			<a href="#">2.2c</a>			<a href="#">5.3ab</a>	<a href="#">6.3ac</a>	<a href="#">7.1e</a>	<a href="#">8.2</a>			
Exponents/Squares/Square Roots							<a href="#">6.4</a>	<a href="#">7.1ad</a>	<a href="#">8.3ab</a>	<a href="#">A.3bc</a>		
C&E- STRAND CONCEPT	Grade K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Related to Algebra I	Related to Geometry	Related to Algebra II
Fluency - Whole Number Operations		<a href="#">1.7ab</a>	<a href="#">2.5b</a>	<a href="#">3.4c</a>	<a href="#">4.4a</a>							
Whole Number Estimation and Operations			<a href="#">2.5a</a> ; <a href="#">2.6ab</a>	<a href="#">3.3a</a> ; <a href="#">3.4a</a>	<a href="#">4.4bc</a>	<a href="#">5.7</a>						
Rational Number Estimation and Operations					<a href="#">4.5ab</a> ; <a href="#">4.6a</a>	<a href="#">5.5a</a>	<a href="#">6.5a</a> ; <a href="#">6.6ac</a>					
Practical Applications – Whole Numbers	<a href="#">K.6</a>	<a href="#">1.6</a>	<a href="#">2.6c</a>	<a href="#">3.3b</a> ; <a href="#">3.4bd</a>	<a href="#">4.4d</a>							
Practical Applications - Rational Numbers and Proportional Reasoning				<a href="#">3.5</a>	<a href="#">4.5c</a> ; <a href="#">4.6b</a>	<a href="#">5.4</a> ; <a href="#">5.5b</a> ; <a href="#">5.6ab</a>	<a href="#">6.5bc</a> ; <a href="#">6.6b</a>	<a href="#">7.2</a> ; <a href="#">7.3</a>	<a href="#">8.4</a>			
M&G- STRAND CONCEPT	Grade K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Related to Algebra I	Related to Geometry	Related to Algebra II
Money	<a href="#">K.7</a>	<a href="#">1.8</a>	<a href="#">2.7ab</a>	<a href="#">3.6abc</a>								
Time	<a href="#">K.8</a>	<a href="#">1.9ab</a>	<a href="#">2.9</a> ; <a href="#">2.10ab</a>	<a href="#">3.9abc</a>	<a href="#">4.9</a>	<a href="#">5.11</a>						
Length, Weight/Mass, Liquid Volume, and Temperature	<a href="#">K.9</a>	<a href="#">1.10</a>	<a href="#">2.8ab</a> ; <a href="#">2.11</a>	<a href="#">3.7ab</a> ; <a href="#">3.10</a>	<a href="#">4.8abcd</a>	<a href="#">5.9ab</a>						
Area, Perimeter, and Circumference				<a href="#">3.8ab</a>	<a href="#">4.7</a>	<a href="#">5.8ab</a>	<a href="#">6.7abc</a>		<a href="#">8.10</a>			
Volume and Surface Area								<a href="#">7.4ab</a>	<a href="#">8.6ab</a>		<a href="#">G.13</a> ; <a href="#">G.14abcd</a>	

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M&G- STRAND CONCEPT	Grade K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Related to Algebra I	Related to Geometry	Related to Algebra II
Point, Line, Line Segment, Ray and Angle - Identify, Describe, Classify and Measure				<a href="#">3.11</a>	<a href="#">4.10ab</a>	<a href="#">5.12</a>			<a href="#">8.5</a>		<a href="#">G.2ab</a>	
Circles and Polygons - Identify and Describe	<a href="#">K.10ac</a>	<a href="#">1.11ab</a>		<a href="#">3.12abc</a>		<a href="#">5.10</a> ; <a href="#">5.14b</a>					<a href="#">G.12</a>	
Circles and Polygons – Classify and Measure			<a href="#">2.12ab</a>		<a href="#">4.12</a>	<a href="#">5.13ab</a>		<a href="#">7.6ab</a>	<a href="#">8.9ab</a>		<a href="#">G.5abcd</a> ; <a href="#">G.8abc</a> ; <a href="#">G.9</a> ; <a href="#">G.10abc</a> ; <a href="#">G.11abcd</a>	
Plane (2-D) and Solid (3-D) Figures - Compare, Contrast, and Construct	<a href="#">K.10b</a>		<a href="#">2.13</a>		<a href="#">4.11</a>				<a href="#">8.8</a>		<a href="#">G.4abcdefgh</a>	
Congruency and Similarity				<a href="#">3.13</a>			<a href="#">6.9</a>	<a href="#">7.5</a>			<a href="#">G.6</a> ; <a href="#">G.7</a>	
Coordinate Plane and Transformations						<a href="#">5.14a</a>	<a href="#">6.8ab</a>	<a href="#">7.7</a>	<a href="#">8.7ab</a>		<a href="#">G.3abcd</a>	
P&S- STRAND CONCEPT	Grade K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Related to Algebra I	Related to Geometry	Related to Algebra II
Measures of Central Tendency						<a href="#">5.17abcd</a>	<a href="#">6.11ab</a>					<a href="#">AII.10</a> ; <a href="#">AII.11abc</a> ; <a href="#">AII.12</a>
Outcomes and Probability			<a href="#">2.14</a>	<a href="#">3.14</a>	<a href="#">4.13abc</a>	<a href="#">5.15</a>		<a href="#">7.8ab</a>	<a href="#">8.11ab</a>			
Data Representation and Interpretation	<a href="#">K.11ab</a>	<a href="#">1.12ab</a>	<a href="#">2.15ab</a>	<a href="#">3.15ab</a>	<a href="#">4.14abc</a>	<a href="#">5.16abc</a>	<a href="#">6.10abc</a>	<a href="#">7.9abc</a>	<a href="#">8.12abc</a> ; <a href="#">8.13abc</a>	<a href="#">A.9</a>		<a href="#">AII.9</a>
PFA - STRAND CONCEPT	Grade K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Related to Algebra I	Related to Geometry	Related to Algebra II
Equality/Solving Equations		<a href="#">1.15</a>	<a href="#">2.17</a>	<a href="#">3.17</a>	<a href="#">4.16</a>	<a href="#">5.19bd</a>	<a href="#">6.13</a>	<a href="#">7.12</a>	<a href="#">8.17</a>	<a href="#">A.4abcde</a>		<a href="#">AII.3abcd</a> ; <a href="#">AII.4</a>
Solving Inequalities							<a href="#">6.14ab</a>	<a href="#">7.13</a>	<a href="#">8.18</a>	<a href="#">A.5abcd</a>		<a href="#">AII.3a</a>
Algebraic Expressions						<a href="#">5.19ac</a>		<a href="#">7.11</a>	<a href="#">8.14ab</a>	<a href="#">A.1ab</a> ; <a href="#">A.2abc</a> ; <a href="#">A.3a</a>		<a href="#">AII.1abc</a> ; <a href="#">AII.2</a>
Proportional and Additive Relationships; Slope; Linear Functions							<a href="#">6.12abcd</a>	<a href="#">7.10abcde</a>	<a href="#">8.16abcde</a>	<a href="#">A.6abc</a> ; <a href="#">A.8</a>		<a href="#">AII.5</a>
Patterns, Relations and Functions	<a href="#">K.12</a> ; <a href="#">K.13</a>	<a href="#">1.13</a> ; <a href="#">1.14</a>	<a href="#">2.16</a>	<a href="#">3.16</a>	<a href="#">4.15</a>	<a href="#">5.18</a>			<a href="#">8.15ab</a>	<a href="#">A.7abcdef</a>		<a href="#">AII.6ab</a> ; <a href="#">AII.7a-k</a> ; <a href="#">AII.8</a>