2017 K-2 Mathematics Standards Major Revisions At-A-Glance

General changes:

- Many of the standards with multiple parts were rewritten using bullets to make the expectations clear and concise.
- Language was incorporated into standards to add clarity of expectations.
- Examples were removed from the standards and placed in the instructional support documents.
- Footnotes were removed and placed in the standards or instructional support documents.
- Some standards were combined to make the expectation more concise while other standards were separated for clarity.
- Cluster headings are an organizational tool. They are no longer necessary for interpretation of the standard.

Considerations:

- Expectations expressed in a grade level are not repeated in higher grade levels but should be maintained and built upon.
- Further explanation and expectation of standards (what student should know and do) will be found in the instructional support documents.

Major Revisions			
Kindergarten	1 st Grade	2 nd Grade	
 NC.K.CC.4 Perceptual subitizing is more clearly defined. NC.K.OA.6 Conceptual subitizing has been made more explicit. 	 NC.1.OA.1 The comparison problem type limited to Difference Unknown. NC.1.NBT.1 Revised to count to 150 instead of 120 to allow for more pattern exploration within the counting sequence. NC.1.NBT.7 Reading and writing numbers changed to 100 to correspond with the place value instruction for first grade. NC.1.MD.5 Coin identification has been added. Removed Standard 1.OA.5 Relating counting to addition and subtraction was removed. 	 NC.2.OA.1 Comparison problem types, Compare-Bigger Unknown and Compare- Smaller Unknown, were moved from first grade. NC.2.OA.4 Using rectangular arrays. Removed Standard 2.MD.9 Generating and displaying data on line plots was removed. 2.G.2 Partitioning rectangles into rows and columns was removed 	

Adopted: June 2017

Implementation: 2018-2019

2017 3-5 Mathematics Standards Major Revisions At-A-Glance

General changes:

- Many of the standards with multiple parts were rewritten using bullets to make the expectations clear and concise.
- Language was incorporated into standards to add clarity of expectations.
- Examples were removed from the standards and placed in the instructional support documents.
- Footnotes were removed and placed in the standards or instructional support documents.
- Some standards were combined to make the expectation more concise while other standards were separated for clarity.
- Cluster headings are an organizational tool. They are no longer necessary for interpretation of the standard.

Considerations:

- Expectations expressed in a grade level are not repeated in higher grade levels but should be maintained and built upon.
- Further explanation and expectation of standards (what student should know and do) will be found in the instructional support documents.

Major Revisions			
3 rd Grade	4 th Grade	5 th Grade	
 NC.3.OA.8 Two-step word problems are limited to addition, subtraction, and multiplication. NC.3.MD.2 Metric Measurement was removed. Students will solve problems involving the customary measurement system. NC.3.MD.3 Data involving fractional values on a line plot has been removed and the focus is on collecting and representing categorical data in scaled picture and bar graphs. Removed Standard 3.MD.7d The concept of finding the area of rectilinear figures has been moved to 4th grade. 	 NC.4.OA.4 Finding factors of a number is now limited to 50 instead of 100. NC.4.NBT.4 and NC.4.NBT.7 the range of numbers for place value and the operations of addition and subtraction are limited to 100,000. NC.4.MD.1 Customary measurement was removed from 4th grade. Metric measurement is now the focus in 4th grade to align and support place value understanding with decimals. NC.4.MD.3 Finding areas of rectilinear figures with known side lengths, was moved from 3rd grade to 4th grade. NC.4.MD.4 Fractional values on a line plot has been removed from this standard, and the focus is working with categorical and numerical data 	 NC.5.OA.2 The use of brackets and braces to evaluate numerical expressions was removed. NC.5.NBT.6 This standard now includes models to make a connection to and develop the algorithm for division of whole numbers. NC.5.NF.1 The expectation is to use related fractions: halves, fourths and eighths; thirds, sixths, and twelfths; fifths, tenths, and hundredths to add and subtract fraction with unlike denominators. NC.5.NF.3 Specifies the denominators to use when modeling division of fractions to solve. NC.5.NF.4 Limited to solving one-step word problems involving multiplication of fractions using models to develop the algorithm. NC.5.MD.2 Focus on data that changes over time, making and interpreting line graphs. NC.5.MD.1 Stipulates that a conversion chart will be given to solve one-step conversion problems within a given measurement system. NC.5.MD.2 Line plots were removed. NC.5.MD.5 Finding the volume of combined rectangular prisms, is limited to prisms with sides of one-digit measurement. Removed Standard 5.NBT.2 The concept of exponents to denote powers of 10 was moved to 6th grade 	

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2017 6-8 Mathematics Standards Major Revisions At-A-Glance

General changes:

- Many of the standards with multiple parts were rewritten using bullets to make the expectations clear and concise.
- Language was incorporated into standards to add clarity of expectations.
- Examples were removed from the standards and placed in the instructional support documents.
- Footnotes were removed and placed in the standards or instructional support documents.
- Some standards were combined to make the expectation more concise while other standards were separated for clarity.
- Cluster headings are an organizational tool. They are no longer necessary for interpretation of the standard.

Considerations:

- Expectations expressed in a grade level are not repeated in higher grade levels but should be maintained and built upon.
- Further explanation and expectation of standards (what student should know and do) will be found in the instructional support documents.

Major Revisions				
6 th Grade	7 th Grade	8 th Grade		
 NC.6.RP.2 Work with equivalent unit ratios are emphasized. NC.6.NS.1 Develop using common denominators to divide fractions. NC.6.NS.4 Determining GCF/LCM using prime factorization; using LCM to add and subtract fractions with uncommon denominators. NC.6.NS.9 Using models build conceptual understanding when adding and subtracting integers NC.6.SP.3 Developing understanding of mean and median; MAD removed – understanding variability through graphical means ONLY. 	 NC.7.RP.2a Comparing proportional relationships using tables, graphs, equations and verbal descriptions was moved from 8th grade. NC.7.RP.3 Using scale factors and unit rates to solve proportion problems NC.7.SP.3a Developing understanding for calculating MAD and IQR were added. Removed Standards: 7.G.3 Cross sections were removed 7.SP.3 Quantifying the difference of measures of center of two data sets as a multiple of a measure of variability was removed. 	 NC.8.NS.2 Limits irrational numbers to square roots, cube root and pi. NC.8.EE.2 Limits perfect square and perfect cube numbers to positive numbers less than or equal to 400. NC.8.EE.4 Limits operations of numbers in scientific notation to multiplication and division. NC.8.EE.8 Limits linear equations in systems of equations to slope-intercept form; limits solving systems of equations to using graphs. NC.8.G.9 Understand how the formulas for volume are related and use to solve problems. Removed Standard: 8.EE.5 Comparing proportional relationships was moved to 7th grade (NC.7.RP.2a). 		

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