Cluster A

Counting & Cardinality

MA.01.NSC.01.02
Understands the relationship between numbers and quantities; one to one

Understands the number of objects is the same regardless of arrangement or order in which they were counted

MA.03.NSC.01.02
Understands each successive number name refers to a quantity that is one larger

Understands counting forward beginning from a given number

MA.02.NSC.01.01
Is skilled at writing numbers 0-20

MA.04.NSC.01.02
Understands greater than, less than, or equal to for objects using terms and symbols (<, >, =)

Place Value

Topics can be done in any order but this section should all be done before the next group

MA.01.NSP.01.01
Understands the concept of place value for numbers 11 to 19

MA.02.NSP.01.01
Understands what the digits of a two digit number (20-99) represent (amounts of tens and ones).

Addition/Subtraction

MA.01.OAS.01.02
Understands that numbers to 10 can be decomposed in more than one way

Understands addition and subtraction equations within 10 using a variety of strategies

MA.02.OAS.01.02
Understands addition as putting together and adding to within 20

Understands subtraction as taking apart and taking from within 20

Is skilled at addition and subtraction equations within 20

Measurement: Money

MA.01.MMO.01.01
Is skilled at finding and representing the value of a collection of coins.

Geometry - 2D & 3D Properties & Attributes

MA.01.GAP.01.01
Understands the concepts of directionality and location of objects

MA.02.GAP.01.01
Understands defining attributes of the following shapes: triangle, quadrilateral, pentagon, hexagon, cube

MA.03.GAP.01.01
Understands the similarities and differences between or among two-dimensional and three-dimensional shapes

MA.04.GAP.01.02
Understands that shapes in different categories may share attributes and that the shared attributes can define a larger category (e.g. quadrilaterals)

Understands the symmetry in shapes or figures

Measurement : Tools of Measurement

MA.01.MME.01.01
Understandss "more", "less" when comparing objects

Is skilled at sorting, classifying, and categorizing objects using length and width.

MA.02.MME.01.01
Is skilled at estimating, measuring, and expressing the length of an object to the nearest inch and centimeter

Fractions-Decimals-Percents

MA.01.NSF.01.02
Understands how to partition a circle and rectangle into two, three and four equal parts

Understands a fraction 1/b as the quantity formed by 1 part when a whole is partitioned into b equal parts

Statistics and Probability: Data Analysis

MA.01.SDA.01.02
Is skilled at organizing, representing and interpreting a simple set of data

MA.02.SDA.01.02
Understands how to represent and interpret data in a line plot (dotplot) to the nearest whole units

Understands how to represent and interpret data in a picture graph or bar graph

Measurement: Time

MA.01.MTI.01.01
Is skilled at telling time to the hour and half hour in analog

Algebra - Foundational Algebra

MA.01.AFA.01.02
Understands patterns.

Cluster B

Place Value

MA.03.NSP.01.01
Understands that the three digits of a three-digit number represent amount of hundreds, tens, and ones

MA.04.NSP.01.01
Understands the concept of rounding whole numbers to any place using place value

Number & Quantity

MA.01.NQN.01.02
Is skilled at ordering and comparing integers on a number line

Addition/Subtraction

MA.03.OAS.02.02
Understands the commutative, identity and associative properties of addition

Understands the relationship between addition and subtraction

Is skilled at addition within 100; one digit with two digit numbers and two digit with two digit numbers

MA.04.OAS.01.02
Is skilled at addition and subtraction of whole numbers with three or more digits

Is skilled at solving word problems using addition and subtraction of whole numbers

Algebra - Foundational Algebra

MA.02.AFA.01.01
Understands how to generate a sequence given a rule

Multiplication/Division

MA.01.OMD.02.02
Understands the relationship between multiplication and addition

Understands various ways to represent multiplication

MA.02.OMD.01.02
Understands the Commutative, Associative, Identity Property of Zero, and Distributive Properties

MA.03.OMD.01.02
Is skilled at solving multiplication word problems

Is skilled at multiplication of one-digit whole numbers by multiples of 10 in the range 10–90

Is skilled at multiplying a multi-digit number by a one digit number and multiply two by two-digit numbers

Measurement

MA.03.MME.01.01
Is skilled at measuring in half-inches

Is skilled at measuring in quarter-inches

MA.04.MME.01.01
Is skilled at measuring length or distance

Understandss when to use the appropriate measurement tool for length or distance

MA.02.MTI.01.01
Is skilled at telling time to the nearest quarter hour

MA.03.MTI.01.01
Is skilled at telling time to the nearest minute using a.m. and p.m.

MA.02.MMO.01.01
Is skilled at making exchanges between coins and bills

MA.03.MMO.01.01
Is skilled at solving word problems involving dollar bills, quarters, dimes, nickels, and pennies

Integrated with science and social studies data

MA.03.SDA.01.02
Understands scale in a picture graph to represent and interpret a data set

Understands scale in a bar graph to represent and interpret a data set

Adopted 5/23/12