**5th Grade Math Pacing Guide 2018-2019**

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| **DATES** | **CONCEPT** | **I CAN!s** | **STANDARDS** | **FOCUS DOMAINS** |
| 8/27-9/14/18(14 days) | Place Value & Whole Number OperationsExponentsNumber Patterns | 5.15.25.6(5.7) | 5 NBT 1-45 NBT 5-65 OA 1,2 | NUMBERS IN BASE TEN |
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| 9/17-10/12/18(19 days) | Operations with Whole NumbersEstimating | 5.25.5 | 5 NBT 5-65 NF 3-7 |
| **Milestone #1 Window 10/22-11/5/18 I CAN!s: 5.1 (PLACE VALUE & ROUNDING), 5.2****Data Day 11/13/2018** |
| 10/15-11/7/18(18 days) | Decimals & Place ValueDecimal Sums & Differences | 5.15.3 | 5 NBT 1-45 NBT 7 |  |
| 11/8-12/14/18(20 days) | Expanded FormMultiplication of Decimals | 5.15.3 | 5 NBT 1-45 NBT 7 |
| 1/7-1/25/19(14 days) | Division of DecimalsAdding & Subtracting Fractions | 5.15.45.6 | 5 NBT 1-45 NF 1, 2(5 OA 1, 2) | NUMBER & OPERATIONS: FRACTIONS |
| **Milestone #2 (1/14-1/25/19) I CAN!s: 5.1, 5.2, 5.3, 5.5, 5.6, 5.7****Data Day 2/15/2019** |
| 1/28-2/22/19(18 days) | Multiplying FractionsMeasurement & Geometry Applications | 5.45.55.10 | 5 NF 1, 25 NF 3-75 MD 3-5 |  |
| 2/25-3/15/19(15 days) | Dividing FractionsCoordinate GridData Displays | 5.55.95.11 | 5 NF 3-75 MD 25 OA 3, 5 G 1, 2 | MEASUREMENT & DATA |
| **Milestone #3 Window (3/18-3/29/19) I CAN!s: 5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 5.9, 5.10, 5.11****Data Day 4/5/2019** |
| 3/18-4/4/19(15 days) | Graphing & PatternsLength & Unit ConversionsElapsed Time | 5.95.115.8 | 5 MD 25 OA 3/5 G 1,25 MD 1 | GEOMETRY |
| 4/8-4/26/19(10 days) | Classifying PolygonsVolume of Prisms | 5.10(5.12) | 5 MD 3-5(5 G 3, 4) |
| 4/29-5/10/19 | **CAASPP Prep & Testing** |
| 5/13-6/13/19(23 days) | **Targeted I CAN! Review****Onramp to Next Grade****Demonstration of Mastery** |

5th Grade Math I CAN!s and CAN I?s

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| **#** | **I CAN!s** | **CAN I?s** |
| 5.1 | I CAN understand and explain the value of digits and use that understanding to read, write, round and compare decimals to thousandths.NBT 1-4 | * Name each place value to the thousandths?
* Recognize a digit in the one place is 10 times as much as the number to its right and 1/10 of the number to its left?
* Explain the relationship between the number of zeros in a number and relate it to powers of 10?
* Describe decimal point placement when a number is multiplied or divided by a power of 10?
* Use rounding strategies to estimate decimals?
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| 5.2 | I CAN multiply multi-digit whole numbers and divide four-digit dividends by two-digit divisors.NBT 5-6 | * Use place value strategies to multiply & divide numbers?
* Use place value strategies to divide numbers?
* Apply properties of operations when multiplying and dividing?
* Describe the relationship between multiplication and division?
* Illustrate multiplication and division using equations, arrays and area models?
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| 5.3 | I CAN add, subtract, multiply and divide decimals to hundredths and use concrete models, drawings, area models and arrays to explain my answer.NBT 7 | * Use concrete models based on place value to compute with decimals?
* Apply properties of operations to decimal computations?
* Describe a strategy used to compute with decimals?
* Explain the relationship between addition and subtraction?
* Solve real-world problems involving decimals and explain my reasoning?
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| 5.4 | I CAN fluently add, subtract, multiply and divide fractions involving unlike denominators, mixed numbers and whole numbers.NF 1, 2 | * Identify and explain the parts of a fraction and what it represents?
* Explain the criteria for a fraction to be equal to 1?
* Find a common denominator of two fractions?
* Mentally assess if my answers are reasonable using benchmark fractions?
* Create visual fraction models and equations to represent a real-world problem?
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| 5.5 | I CAN interpret, apply and extend understanding of fraction computation to real world problems involving fractions and mixed numbers.NF 3-7 | * Explain how a fraction is related to division?
* Solve real-world problems involving of division of fractions using models and equations?
* Solve real-world problems involving of multiplication of fractions using models and equations?
* Use multiplication of fractions to resize real-world models?
* Compare the size of a product to the size of one factor?
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| 5.6 | I CAN use parentheses, brackets and ordering of operations to write expressions and calculate numbers.OA 1, 2 | * Know and apply the order of operations?
* Find prime factors of numbers?
* Multiply numbers using exponents?
* Write simple expressions without evaluating them?
* Recognize how how operations change a number without evaluating them?
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| 5.7 | I CAN determine the prime factors of all numbers through 50 and show multiples of a factor using exponents.*(supporting I CAN)**4th Grade: 4 OA 4* | * Explain the relationship between exponents and multiplication?
* Give examples of prime numbers and explain what makes them prime?
* Give examples of composite numbers and explain what makes them composite?
* Name factors of numbers based on what I know about multiplication?
* Show factors as a product of numbers?
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| 5.8 | I CAN convert measurement within the same measuring system.MD 1 | * Identify different measuring systems?
* Know how to use measuring tools and name the size?
* Name common units of measurement?
* Compare the size of items and describe them?
* Convert measurement in multi-step real-world problems?
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| 5.9 | I CAN make a line plot display data sets of measurement in fractions and use fraction operations to solve problems involving the information on a line plot.MD 2 | * Read and gather data from a line plot?
* Analyze a data set to gather information?
* Use fraction measurement in data collection?
* Gather data and create a line plot to represent the data?
* Solve real-world problems from information given in line plots?
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| 5.10 | I CAN understand volume, measure volume by counting unit cubes, find the volume using a formula and use this knowledge to solve real world problems.MD 3-5 | * Describe the difference between two- and three-dimensional figures?
* Recognize volume as an attribute of solid figures?
* Use unit cubes to show the volume?
* Relate volume to multiplication and addition operations?
* Identify volume in the world and solve real-world problems?
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| 5.11 | I CAN draw a coordinate plane, use numerical rules and patterns to graph ordered pairs (x, y), and represent real world and mathematical problems by graphing and interpreting the values. G 1, 2, OA 3 | * Draw a coordinate plane including: x-axis, y-axis and the origin?
* Label points (ordered pairs) on the coordinate plane?
* Generate patterns using given rules and graph the ordered pair?
* Describe the relationship between and x- and y-coordinates of an ordered pair?
* Explain how the x-axis and y-axis relate to the x- and y-coordinates of an ordered pair?
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| 5.12 | I CAN classify two-dimensional shapes into categories based on their properties.G 3, 4 | * Identify attributes of two-dimensional figures?
* Identify and name right angles in a figure?
* Draw two-dimensional shapes and identify them in the world?
* Assign two-dimensional figures into categories and subcategories?
* Know the names of two-dimensional shapes?
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**Standards of Mathematical Practice (SMPs)**

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|  #1 Make sense of problems and persevere in solving them. |  #5 Use appropriate tools strategically. |
|  #2 Reason abstractly and quantitatively. |  #6 Attend to precision. |
|  #3 Construct viable arguments & critique the reasoning of others. |  #7 Look for and make use of structure. |
|  #4 Model with mathematics. |  #8 Look for and express regularity in repeated reasoning. |