## JC Schools 4th Grade Yearly Math Standards

## Overarching Standards (taught in all units)

## 4.NBT.A. 5

Demonstrate fluency with addition and subtraction of whole numbers (Fluency refers to accuracy and efficiency and does not equate to memorization.)

| Units | Priority Standards | Supporting Standards |
| :---: | :---: | :---: |
| Unit 1 <br> Place Value, Addition, \& Subtraction to One Million <br> 16 days | 4.NBT.A. 1 <br> Round multi-digit whole numbers to any place <br> 4.NBT.A. 2 <br> Read, write, and identify multi-digit whole numbers up to one million using number names, base ten numerals, and expanded form <br> 4.NBT.A. 3 <br> Compare two multi-digit numbers using the symbols $>$, $=$, or <, and justify the solution | 4.NBT.A. 4 <br> Understand that in a multi-digit whole number, a digit represents ten times what it would represent in the place to its right |
| Unit 2 <br> Multiplication <br> 36 days | 4.NBT.A. 6 <br> Multiply a whole number of up to four digits by a one-digit whole number and multiply two two-digit numbers, and justify the solution <br> 4.RA.A. 2 <br> Solve multi-step whole number problems involving the four operations and variables and using estimation to interpret the reasonableness of the answer | 4.RA.A. 1 <br> Multiply or divide to solve problems involving a multiplicative comparison |


|  | 4.RA.B.4 <br> Recognize that a whole number is a multiple of each of its <br> factors and find the multiples for a given whole number <br> 4.RA.B.5 <br> Determine if a whole number within 100 is composite or <br> prime, and find all factor pairs for whole numbers within 100 <br> 4.RA.C.6 <br> Generate a number pattern that follows a given rule <br> 4.RA.C.7 <br> Use words or mathematical symbols to express a rule for a <br> given pattern |  |
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| Unit 3 | 4.NBT.A. <br> Find whole-number quotients and remainders with up to <br> four-digit dividends and one-digit divisors, and justify the <br> solution | 4.RA.A.2 <br> Solve multi-step whole number problems involving the four <br> operations and variables and using estimation to interpret the <br> reasonableness of the answer <br> Division |
| 4.RA.A.3 <br> Solve whole number division problems involving variables in <br> which remainders need to be interpreted, and justify the <br> solution |  |  |
| Unit 4 | 4.NF.A.1 <br> Explain and/or illustrate why two fractions are equivalent <br> 4.NF.A.2 <br> Recognize and generate equivalent fractions |  |
| Fractions | days |  |


|  | 4.NF.A. 3 <br> Compare two fractions using the symbols $>$, $=$, or $<$, and justify the solution <br> 4.NF.B. 4 <br> Understand addition and subtraction of fractions as a joining/composing and separating/decomposing parts referring to the same whole <br> 4.NF.B. 5 <br> Decompose a fraction into a sum of fractions with the same denominator and record each decomposition with an equation and justification <br> 4.NF.B. 6 <br> Solve problems involving adding and subtracting fractions and mixed numbers with like denominators <br> 4.NF.B. 7 <br> Apply and extend previous understandings of multiplication to multiply a fraction with a whole number <br> 4.NF.B. 8 <br> Solve problems involving multiplication of a fraction by a whole number |  |
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| Unit 5 <br> Decimals <br> 14 days | 4.NF.C. 11 <br> Read, write, and identify decimals to the hundredths place using number names, base-ten numerals, and expanded form <br> 4.NF.C. 12 <br> Compare two decimals to the hundredths place using the symbols >, =, or <, and justify the solution | 4.NF.C. 9 <br> Use decimal notation for fractions with denominators of 10 or 100 <br> 4.NF.C. 10 <br> Understand that fractions and decimals are equivalent representations of the same quantity |
| Unit 6 <br> Geometry | 4.GM.A. 1 <br> Draw and identify points, lines, line segments, rays, angles, perpendicular lines, and parallel lines | 4.GM.B. 4 <br> Identify and estimate angles and their measure |


| 21 days | 4.GM.A. 2 <br> Classify two-dimensional shapes by their sides and/or angles <br> 4.GM.A. 3 <br> Construct lines of symmetry for a two-dimensional figure <br> 4.GM.B. 5 <br> Draw and measure angles in a whole number degrees using a protractor <br> 4.RA.C. 6 <br> Generate a number pattern that follows a given rule <br> 4.RA.C. 7 <br> Use words or mathematical symbols to express a rule for a given pattern |  |
| :---: | :---: | :---: |
| Unit 7 <br> Measurement \& Data <br> 28 days | 4.GM.C. 7 <br> Use the four operations to solve problems involving distances, intervals of time, liquid volume, weight of objects, and money <br> 4.GM.C. 8 <br> Apply the area and perimeter formulas for rectangles to solve problems <br> 4.DS.A. 1 <br> Create a frequency table and/or line plot to display measurement data <br> 4.DS.A. 3 <br> Analyze the data in a frequency table, line plot, bar graph, or picture graph. | 4.GM.C.6a <br> Know relative sizes of measurement units within one system of units <br> a. Convert measurements in a larger unit in terms of a smaller unit <br> 4.DS.A. 2 <br> Solve problems involving addition and subtractions by using information presented in a data display |

