**Grade 4**

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| **Number and Number Sense** |
| Place | Place value | Whole number | Standard form | Written form |
| Expanded form | Ones | Tens | Hundreds | Thousands  |
| Ten thousand | Hundred thousand | Million | Greater than | Less than |
| Equal to  | Range | Round | Fraction | Whole |
| Part | Like denominators | Unlike denominators | Common denominator | Denominator |
| Numerator | Improper fraction | Proper fraction | Mixed number | Equivalent fractions |
| Division statement | Decimal | Tenths | Hundredths | Thousandths |
| Least  | Greatest | Decimal point | Number line | Compare |
| Order |  |  |  |  |

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| **Computation and Estimation** |
| Multiplication | Division | Sum | Difference | Product |
| Quotient | Place value | Factor | Remainder | Estimate |
| Closer to | Between | A little more than | Equal-sets/Equal groups model | Array model |
| Column | Row | Length model | Number line model | \*Identity Property of Addition\* |
| \*Identity Property of Multiplication\* | \*Commutative Property of Addition\* | \*Commutative Property of Multiplication\* | \*Associative Property of Addition\* | \*Associative Property of Multiplication\* |
| \*Distributive Property\* | Addend | Subtrahend | Dividend | Divisor |
| Equal groups/Shares | Rounding up | Rounding down | Front-end estimation | Compatible numbers |
| In all\*\* | Altogether\*\* | Difference\*\* | Common multiple | Common factor |
| Greatest common factor | Common denominator | Proper fraction | Improper fraction | Mixed number |
| Least common multiple | Simplest form | Decimal | Hundredths | Thousandths |

\*NOTE: Students should apply rules but not required to use the terms.

\*\*NOTE: Key word samples

Grade 4 (continued)

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| **Measurement and Geometry** |
| Perimeter | Area | Polygon | Side | Surface |
| Plane figure | Length | Width | Rectangle | Square |
| U. S. Customary unit | Metric unit | Unit of measure | Inch | Foot |
| Yard | Mile | Millimeter | Centimeter | Meter |
| Ounce | Pound | Gram | Kilogram | Weight |
| Mass | Liquid Volume | Cup | Pint | Quart |
| Gallon | Elapsed time | a.m. | p.m. | Beginning time |
| Ending time | Point | Line | Line segment | Ray |
| Angle | Endpoint | Vertex | Parallel | Perpendicular |
| Intersecting | Right angle | Solid figure | Plane figure | Two-dimensional |
| Three-dimensional | Closed | Height | Edge | Face |
| Cube | Rectangular prism | Square pyramid | Sphere | Cone |
| Cylinder | Circle | Triangle | Quadrilateral | Parallelogram |
| Congruent | Rectangle | Square | Trapezoid | Rhombus |

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| **Probability and Statistics** |
| Probability | Likelihood | Outcome | Event | Impossible or zero |
| Unlikely | Equally likely | Certain or one | Possible outcomes | Favorable  |
| Trials | Experimental Probability | Theoretical Probability | Data | Bar graph |
| Line graph | Chart or table | Pictograph | Axis | Increment |
| Category | Vertical | Horizontal | Numerical data | Categorical data |
| Title | Continuous |  |  |  |

Grade 4 (continued)

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| **Patterns, Functions, and Algebra** |
| Pattern | Function | Growing pattern | Repeating pattern | Numerical (arithmetic) pattern |
| Input | Output | Equation | Expression | Variable |
| Equal symbol (=) | Not equal symbol (≠) | Equivalent |  |  |