

**6th Grade Math Pacing Guide**

Measurement topics are listed in suggested order of instruction.

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|  | **Measurement****Topic** | **3.0 Element** | **Accomplish Score** | **Where do I need to focus/Thoughts** |
| Quarter 1 |
| Q1 | Factors and Multiples | **FM1—**Find the prime factorization of a given number**FM2—**Find the greatest common factor and least common multiple of two whole numbers **FM3—**Express a sum of two whole numbers that have a common factor as a multiple of a sum of two whole numbers that do not have a common factor |  |  |
| Long Division | **LD1—**Use long division to solve problems with multi-digit whole-number dividends and divisors that have quotients without remainders **LD2—**Use long division to solve problems involving multi-digit decimal value dividends, divisors, and quotients |  |  |
| Fraction Division | **FD1—**Divide fractions by fractions using a model or diagram**FD2—**Divide fractions by fractions arithmetically |  |  |
| Ratios, Rates, and Percentages | **RRP1—**Calculate rates to solve problems involving equivalent ratios**RRP2—**Solve problems involving percentages |   |  |
| Quarter 2 |
| Q2 | Measurement Conversions | **MC1—**Convert between US customary and metric length measurement units**MC2—**Convert between US customary and metric weight measurement units **MC3—**Convert between US customary and metric capacity measurement units**MC4—**Convert temperatures between Fahrenheit and Celsius |  |  |
| Evaluating Algebraic Expressions | **EAE1—**Evaluate algebraic expressions for a given value of the variable**EAE2—**Generate equivalent algebraic expressions |  |  |
| Algebraic Equations | **AE1—**Solve one-step algebraic equations**AE2—**Write algebraic equations to represent real-world problems |   |  |
| Independent and Dependent Variables | **IDV1—**Identify independent and dependent variables and their relationships**IDV2—**Write equations to represent the relationship between independent and dependent variables  |  |  |
| Signed Numbers and Absolute Value | **SNAV1—**Represent positive and negative numbers on a number line**SNAV2—**Evaluate absolute values and represent them on a number line**SNAV3—**Use positive and negative numbers and absolute values to describe real-world contexts  |  |  |
| Quarter 3 |
| Q3 | Inequalities | **I1—**Solve one-step inequalities**I2—**Represent inequalities on a number line **I3—**Write inequalities to represent mathematical and real-world constraints and contexts  |  |  |
| Area and Volume | **AV1—**Calculate the area of polygons by decomposing them into rectangles and triangles**AV2—**Calculate the surface area of polyhedra**AV3—**Calculate the volume of right rectangular prisms with fractional edge lengths |  |  |
| Coordinate Plane | **CP1—**Plot points in all four quadrants of a coordinate plane**CP2—**Calculate the distance between points that share a coordinate **CP3—**Represent polygons on a coordinate plane by plotting and connecting their vertices  |  |  |
| Measures of Central Tendency | **MCT1—**Calculate the mean of a data set**MCT2—**Calculate the median of a data set**MCT3—**Calculate the mode of a data set |  |  |
| Quarter 4 |
| Q4 | Measures of Variability | **MV1—**Calculate the interquartile range of a data set **MV2—**Calculate the mean absolute deviation of a data set |  |  |
| Displaying Distributions | **DD1—**Represent a given data set using a dot plot**DD2—**Represent a given data set using a histogram **DD3—**Represent a given data set using a box-and-whisker plot |  |  |
| Analyzing Distributions | **AD1—**Describe the overall shape of a given data set **AD2—**Choose the most appropriate measures of central tendency and variability to describe a given data set **AD3—**Describe data gathered to answer a statistical question in terms of the context |  |  |