

GRADE 6 PACKET SUMMARIES

Packet	Summary	Max Class Hours	Standards (Primary) (Connections)
6-1 Statistics	Students calculate and interpret measures of center and spread, explore the effect of outliers on measures of center, identify characteristics of statistical questions, and construct and analyze data displays.	3 lessons 14 hours	6.SP.1-5
6-2 Factors and Multiples	Students calculate and interpret measures of center and spread, explore the effect of outliers on measures of center, identify characteristics of statistical questions, and construct and analyze data displays.	3 lessons 14 hours	6.NS.4
6-3 Ratio Representations	Students develop ratio language and notation, and use several ratio representations to examine whether ratios are equivalent, and to solve various problems. Included is the use of ratio reasoning to do measurement conversions and solve problems involving measurements.	4 lessons 17 hours	6.RP.1-3
6-4 Division	Students explore the world of division, including whole numbers, decimals, and fractions. Whole number “chunking” division leads to the standard algorithm; fluency with decimal division is built, and applied to solving rate problems; and a “divide across” fraction procedure leads to the traditional “divide by the reciprocal” algorithm.	4 lessons 16 hours	6.NS.1-3 6.RP.2-3
6-5 Percent	Students build concepts around percent reasoning, including percent as a number, and then percent of a number, in order to solve percent problems and applications.	3 lessons 13 hours	6.RP.3 6.NS.3 6.SP.2-5
6-6 Expressions	Students apply the distributive property to rewrite numerical expressions, use exponential notation, and evaluate expressions using the order of operations. Algebra vocabulary is introduced, and attention is focused on writing and evaluating algebraic expressions. Students translate between words, numbers, and symbols, and explore the meaning of equivalent expressions.	3 lessons 14 hours	6.EE.1-4, 6 6.NS.3-4
6-7 Inputs and Outputs	Students use unit rates, tables, double number lines, graphs, and algebraic input-output rules (equations) to describe visual patterns, compare prices, and solve rate problems.	3 lessons 14 hours	6.EE.9 6.RP.3 6.NS.3 6.EE.2, 6 6.SP.1, 3.
6-8 Solving Equations	Students use mobiles, balance scales, tape and diagrams, and familiar contexts to explore equation solving. “Mental math” techniques, visuals, and formal procedures are used to solve equations, and equations are used for problem-solving.	3 lessons 15 hours	6.EE.5-8 6.EE.9
6-9 Area and Volume	Students derive area formulas for common polygons and use the formulas to solve problems. They use nets to find surface area of solids and apply that knowledge to problem-solving. They extend their knowledge of volume of a rectangular prism to solving problems with those having fractional edge lengths	3 lessons 15 hours	6.G.1, 2, 4 6.EE.2-4, 6, 9 6.RP.3
6-10 The Number Line and the Coordinate Plane	Students use contexts and number lines to learn about integers and non-integer rational numbers, including the concepts of opposites and absolute value. They move to the coordinate plane where they graph ordered pairs of numbers, find distances between points and side lengths of polygon, and explore the effects of reflections across axes.	4 lessons 15 hours	6.NS.5-8 6.G.3 6.EE.5,8