Grade 6 Cluster Designations

The Mathematics Florida Standards emphasize the teaching and learning of mathematical concepts focused around major clusters at each grade level, which are enhanced by supporting and additional clusters. The table below shows the cluster designations for Grade 6 Mathematics. Refer to the Grade 6 Course Description for the specific standards within each of these clusters.

Major Clusters	Supporting Clusters	Additional Clusters
MAFS.6.RP.1 Understand ratio concepts and use ratio reasoning to solve problems. MAFS.6.NS.1 Apply and extend previous understandings of multiplication and division to divide fractions by fractions. MAFS.6.NS.3 Apply and extend previous understandings of numbers to the system of rational numbers. MAFS.6.EE.1 Apply and extend previous understanding of arithmetic to algebraic expressions. MAFS.6.EE.2 Reason about and solve one-step equations and inequalities. MAFS.6.EE.3 Represent and analyze quantitative relationships between dependent and independent variables.	MAFS.6.G.1 Solve real-world and mathematical problems involving area, surface area, and volume	MAFS.6.NS.2 Compute fluently with multi-digit numbers and find common factors and multiples. MAFS.6.SP.1 Develop understanding of statistical variability. MAFS.6.SP.2 Summarize and describe distributions.

Note: Clusters should not be sorted from major to supporting and then taught in that order. To do so would strip the coherence of the mathematical ideas and miss the opportunity to enhance the major work of the grade with the supporting and additional clusters.

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Grade 7 Cluster Designations

The Mathematics Florida Standards emphasize the teaching and learning of mathematical concepts focused around major clusters at each grade level, which are enhanced by supporting and additional clusters. The table below shows the cluster designations for Grade 7 Mathematics. Refer to the Grade 7 Course Description for the specific standards within each of these clusters.

Major Clusters	Supporting Clusters	Additional Clusters
MAFS.7.RP.1 Analyze proportional relationships and use them to solve real-world and mathematical problems. MAFS.7.NS.1 Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers. MAFS.7.EE.1 Use properties of operations to generate equivalent expressions. MAFS.7.EE.2 Solve real-life and mathematical problems using numerical and algebraic expressions and equations.	MAFS.7.SP.1 Use random sampling to draw inferences about a population. MAFS.7.SP.3 Investigate chance processes and develop, use, and evaluate probability models.	MAFS.7.G.1 Draw, construct, and describe geometrical figures and describe the relationships between them. MAFS.7.G.2 Solve real-life and mathematical problems involving angle measure, area, surface area, and volume. MAFS.7.SP.2 Draw informal comparative inferences about two populations.

Note: Clusters should not be sorted from major to supporting and then taught in that order. To do so would strip the coherence of the mathematical ideas and miss the opportunity to enhance the major work of the grade with the supporting and additional clusters.

Grade 8 Cluster Designations

The Mathematics Florida Standards emphasize the teaching and learning of mathematical concepts focused around major clusters at each grade level, which are enhanced by supporting and additional clusters. The table below shows the cluster designations for Grade 8 Mathematics. Refer to the Grade 8 Course Description for the specific standards within each of these clusters.

Major Clusters	Supporting Clusters	Additional Clusters
MAFS.8.EE.1 Work with radicals and integer exponents. MAFS.8.EE.2 Understand the connections between proportional relationships, lines, and linear equations. MAFS.8.EE.3 Analyze and solve linear equations and pairs of simultaneous linear equations. MAFS.8.F.1 Define, evaluate, and compare functions. MAFS.8.F.2 Use functions to model relationships between quantities. MAFS.8.G.1 Understand congruence and similarity using physical models, transparencies, or geometry software. MAFS.8.G.2 Understand and apply the Pythagorean Theorem.	MAFS.8.NS.1 Know that there are numbers that are not rational, and approximate them by rational numbers. MAFS.8.SP.1 Investigate patterns of association in bivariate data.	MAFS.G.3 Solve real-world and mathematical problems involving volume of cylinders, cones, and spheres.

Note: Clusters should not be sorted from major to supporting and then taught in that order. To do so would strip the coherence of the mathematical ideas and miss the opportunity to enhance the major work of the grade with the supporting and additional clusters.

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