

4th Grade Mathematics Teaching & Learning Framework

Semester 1			Semester 2				
Unit 1 6 weeks	Unit 2 4 weeks	Unit 3 8 weeks	Unit 4A 5 weeks	Unit 4B 4 weeks	Unit 5 3 weeks	Unit 6 3 weeks	Unit 7 3 weeks
Making Relevant Connections with Place Value Understanding, Addition and Subtraction of Whole Numbers 4.NR.1 4.NR.2 4.MDR.6	Exploring Real-Life Phenomena through Patterning and Algebraic Reasoning 4.PAR.3 4.MDR.6	Reasoning about Multiplication and Division 4.NR.2 4.MDR.6	Investigating Fractions and Decimals 4.NR.4	Investigating Fractions and Decimals 4.NR.5 4.MDR.6	Building Conceptual Understanding of Angle Measurement 4.GSR.7	Reasoning with Shapes 4.GSR.8	Culminating Capstone Unit
4.NR.1.1 (Read & write multi-digit whole numbers) 4.NR.1.2 (Powers of 10) 4.NR.1.3 (Compare and order whole numbers) 4.NR.1.4 (Place value rounding) 4.NR.2.1 (Fluently add/subtract, properties/relationships of operations) 4.NR.2.5 (Multi-step word problems with addition & subtraction) 4.MDR.6.2 (Ask & answer questions based on gathered information)	4.PAR.3.1 (Generate number and shape patterns) 4.PAR.3.2 (Input-output rules, tables, and charts) 4.PAR.3.3 (Factor pairs and multiples 1-100) 4.PAR.3.4 (Composite and prime numbers) 4.MDR.6.2 (Ask & answer questions based on gathered information)	4.NR.2.2 (Multiplicative comparison) 4.NR.2.3 (Multiply 2-digit by 2-digit and 4-digit by 1-digit) 4.NR.2.4 (Division with whole number quotients and remainders) 4.NR.2.5 (Multi-step word problems with all four operations) 4.MDR.6.1 (Word problems-elapsed time, metric measurement) 4.MDR.6.2 (Ask & answer questions based on gathered information)	4.NR.4.1 (Equivalent fractions and fractions greater than 1) 4.NR.4.2 (Compare fractions same numerators/denominators) 4.NR.4.3 (Compare fractions with different numerators/denominators) 4.NR.4.4 (Sum of unit fractions-fractions & whole numbers) 4.NR.4.5 (Sum of a fraction in more than one way) 4.NR.4.6 (Add/subtract fractions & mixed numbers with like denominators) 4.MDR.6.3 (Dot Plots)	4.NR.5.1 (Denominators 10 and 100) 4.NR.5.2 (Decimal notation) 4.NR.5.3 (Comparing decimals) 4.MDR.6.1 (Word problems-elapsed time, metric measurement, involving fractions with like denominators) 4.MDR.6.2 (Ask & answer questions based on gathered information)	4.GSR.7.1 (Types of angles) 4.GSR.7.2 (Angles measure referenced to circle)	4.GSR.8.1 (Points, lines, angles, and symmetry in 2-D figures) 4.GSR.8.2 (Classifying polygons) 4.GSR.8.3 (Area and perimeter of composite rectangles)	All Standards

Units contain tasks that depend upon the concepts addressed in earlier units. Mathematical standards are interwoven and should be addressed throughout the year in as many different units and tasks as possible in order to stress the natural connections that exist among mathematical topics.

The [Framework for Statistical Reasoning](#), [Mathematical Modeling Framework](#), and the [K-12 Mathematical Practices](#) should be taught throughout the units.

Key for Course Standards: NR: Numerical Reasoning, PAR: Patterning & Algebraic Reasoning, GSR: Geometric & Spatial Reasoning; MDR: Measurement & Data Reasoning