# Mathematics - Grade Four   (#5012060)

**G**eometry

**G.1.1** – Draw and identify points, lines (parallel and perpendicular), line segments, rays, and angles.

**G.1.2** – Classify 2D figures with respect to parallel or perpendicular lines and angle types.



**G.1.3** – Recognize and draw lines of symmetry for 2D figures.

**M**easurement and **D**ata



**MD.1.3** – Find unknown values in area and perimeter problems involving rectangles.

**MD.1.2** – Solve word problems about distance, time, liquid volume, mass, and money using multiple operations and simple fractions/decimals.

**MD.1.1** – Know relative sizes measurement units and generate conversion tables.

**MD.2.4** – Generate and use plots to show measurements of 1 or more objects including ½, ¼, 1/8, and find sums and differences.

**MD.3.7** – Recognize angle measures as additive to answer questions.



**MD.3.5b** – Define an *n*-degree angle as *n* 1-degree angles.

**MD.3.6** – Measure and sketch angles in whole number degrees.

**MD.3.5a** – Define a 1-degree angle as 1/360 of a circle.

**N**umbers and Operations in **B**ase **T**en

**NBT.1.3** – Use place value to round multi-digit whole numbers to any place.



**NBT.2.4** – Fluently add and subtract multi-digit whole numbers using standard algorithm.

**NBT.1.1** – Recognize a digit in one place represents ten times what it represents in the place to the right.

**NBT.1.2** – Read, write, and compare numbers using expanded form and place value.

**NBT.2.6** – Divide 4-digits numbers by 1-digit numbers with remainders and explain.



**NBT.2.5** – Multiply whole numbers < 10,000 by 1 digits numbers, and two 2-digit numbers and explain.

**N**umbers and Operations - **F**ractions



**NF.1.1** – Find equivalent fractions symbolically.

**NF.2.3a** – Understand + and - of fractions as joining and separating parts referring to the same whole.

**NF.2.3b** – Decompose a fraction into a sum of fractions (same denominator) multiple ways & justify using models & equations.

**NF.1.2** – Compare fractions using benchmark fractions, common denominators/numerators, & ref. units.

**NF.2.4b** – Multiply a fraction by a whole number.



**NF.2.4a** – Understand fraction a/b as a multiple of 1/b.



**NF.2.3d** – Solve word problems involving + and – of fractions with like denominators using models and equations.



**NF.2.3c** – Add and subtract mixed numbers (like denominators).



**NF.3.7** – Compare two decimals to hundredths using values of digits and justify with models.



**NF.2.4c** – Solve word problems involving multiplying a fraction by a whole # using visual models & equations.

**NF.3.6** – Use decimals to represent fractions with denominators of 10 or 100 and locate on a number line.

**NF.3.5** – Add 2 fractions with denominators 10 and 100 by using equivalent fractions.



**O**perations and **A**lgebraic Thinking



**OA.1.3** – Solve multi-step word problems including interpreting remainders.

**OA.1.a** - Determine whether an equation is true or false by using comparative relational thinking.

**OA.2.4** – Identify all factors for numbers from 1-100 distinguishing primes and composites.

**OA.1.1** – Interpret a = b × c as a multiplicative comparison using times as many or times as much.

**OA.1.2** – Solve word problems involving multiplicative comparisons.



**OA.3.5** – Generate number patterns using a rule and explain theoretic properties (oddness & evenness).