GRADE	CONTENT	SKILLS	ALTERNATIVE MATH CURRICULUM CHAPTERS	GO MATH! CHAPTERS
NUMBERS AND OPERATIONS				
Essential Question: What does numerical reasoning involve and what does it demonstrate about God's world?		**Big Idea:** Numerical reasoning with whole numbers and fractions demonstrates dependability and order in God's world.		
4	**Place Value**	**4.NO.1** Use place value understanding of multi-digit whole numbers to round to any place up to millions (4.NBT.1,3) **4.NO.2** Read, write, compare, and understand whole numbers using standard, number name, and expanded forms (4.NBT.2)		**Chapter:** 1.1, 1.5, 1.4 **Chapter:** 1.2, 1.3
	Basic Operations	**4.NO.3** Add and subtract multi-digit whole numbers; multiply up to 4 digits X 1 digit and 2 digits X 2 digits; divide using a one-digit divisor and up to a four-digit dividend with and without a remainder (4.NBT.4,5,6)		**Chapter:** 1.6, 1.7, 1.8, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8, 2.10, 2.11, 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 4.1, 4.2, 4.4, 4.5, 4.6, 4.7, 4.8, 4.9, 4.10, 4.11
	Fractions/Decimals	**4.NO.4** Understand, express, and order fractions with different numerators and denominators; numerically express equivalent fractions (4.NF.1,2) **4.NO.5** Add and subtract fractions and mixed numbers with common denominators; multiply fractions by whole numbers (4.NF.3,4) **4.NO.6** Understand, compare and use decimal notation for fractions with denominators of 10 or 100 (4.NF.5,6,7)		**Chapter:** 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7, 6.8 **Chapter:** 7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.7, 7.8, 7.9, 7.10, 8.1, 8.2, 8.3, 8.4, 8.5 **Chapter:** 9.1, 9.2, 9.3, 9.4, 9.6, 9.7
OPERATIONS AND ALGEBRAIC THINKING				
Essential Question: How do numerical patterns link us to an infinite God?		**Big Idea:** Exploring numerical patterns through problem solving links us to an infinite God by demonstrating His order and constancy.		
4	**Multiplication**	**4.OAT.1** Memorize and fluently multiply using the multiplication facts through 12		
	Problem Solving	**4.OAT.2** Solve multi-step word problems including remainder interpretation and estimate to check; create equations with a letter for the unknown (4.OA.1,2,3)		**Chapter:** 2.1, 2.2, 2.9, 2.12, 3.7, 4.3, 4.12
	Factors	**4.OAT.3** Find all factor pairs for a whole number within 100; identify whole numbers as prime or composite (4.OA.4) **4.OAT.4** Understand the basic concepts of least common multiple (LCM) and greatest common factor (GCF)		**Chapter:** 5.1, 5.2, 5.3, 5.4, 5.5
	Patterns	**4.OAT.5** Generate and analyze number and shape patterns (4.OA.5)		**Chapter:** 5.6, 10.7

MEASUREMENT

Essential Question: What do the attributes of measurement reveal aout God?

Big Idea: The attributes of measurement reveal God's accuracy, dependability, and precision.

4	**Measurement/ Conversion**	**4.M.1**	Solve problems involving measurement (time, volume, mass, money, simple fractions, decimals, distance) (4.MD.2)		**Chapter:** 9.5, 12.7, 12.9, 12.10
		4.M.2	Convert measurement from a larger unit to a smaller unit (km, m, cm; kg, g; lb, oz; L, mL; hr, min, sec) (4.MD.1)		**Chapter:** 12.1, 12.2, 12.3, 12.4, 12.6, 12.7, 12.8, 12.11
		4.M.3	Apply area and perimeter formulas (4.MD.3)		**Chapter:** 13.1, 13.2, 13.3, 13.4, 13.5
		4.M.4	Read a Fahrenheit and Celsius thermometer knowing the significance of 32°F, 212°F, 0°C, and 100°C		
	Angles	**4.M.5**	Recognize angles as geometric shapes that are formed wherever two rays share a common end point; understand concepts of angle measurement and measure angles in whole-number degrees (4.MD.5,6,7)		**Chapter:** 11.1, 11.2, 11.3, 11.4, 11.5
	Money	**4.M.6**	Know how to count up to make change		

GEOMETRY

Essential Question: What does geometry reveal about God?

Big Idea: God is revealed as the Master Designer when geometry is used as a means of describing the attributes of the physical world.

4	**Lines/Angles**	**4.GEO.1**	Draw and identify points, lines, line segments, rays, angles, and perpendicular and parallel lines (4.G.1)		**Chapter:** 10.1, 10.3
		4.GEO.2	Classify figures with perpendicular and parallel lines, and angles of a specified size (4.G.2)		**Chapter:** 10.2, 10.4
		4.GEO.3	Recognize and draw lines of symmetry with two-dimensional figures (4.G.3)		**Chapter:** 10.5, 10.6

DATA ANALYSIS, STATISTICS, AND PROBABILITY

Essential Question: How can we quanitfy our findings in a way that pleases God

Big Idea: God has at various times commanded men to count, measure, and record their findings.

4	**Data**	**4.DSP.1**	Solve addition and subtraction problems using a line plot to display a data set of measurement in fractions of a unit (halves, fourths, and eighths) (4.MD.4)		**Chapter:** 10.6, 12.5