

Mathematical Practices Grades K - 8

- 1. Make sense of problems and persevere in solving them.
- 2. Reason abstractly and quantitatively.
- 3. Construct viable arguments and critique the reasoning of others.
- 4. Model with mathematics.
- 5. Use appropriate tools strategically.
- 6. Attend to precision.
- 7. Look for and make use of structure.
- 8. Look for and express regularity in repeated reasoning.



3rd Grade Mathematics Curriculum Map

Trimester	Unit of Study	Illinois Learning Standards	Mathematical Practice Standard	Learning Targets
1	Addition & Subtraction Patterns Introduction to Multiplication Mult-Digit Addition & Subtraction	2.OA.e 3.OA.1 3.OA.3 3.OA.4 3.OA.5 3.OA.6 3.OA.7 3.OA.8 3.OA.9 2.NBT.5 3.NBT.1 3.NBT.1 2.MD.1 2.MD.3 2.MD.5 3.MD.3	3.MP.1 3.MP.2 3.MP.3 3.MP.4 3.MP.7	 Fluently add and subtract within 20 using mental strategies. Use addition and subtraction within 100 to solve one-step word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions. Fluently add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction. Identify patterns among basic addition facts. Fluently add within 20 using mental strategies. Identify patterns among the basic addition facts, and explain those patterns by referring to properties of the operation. Solve one-step subtraction story problems with minuends to 100 involving situations of taking from and comparing, with unknowns in all positions
2	Measurement & Fractions	3.0A.1 3.0A.2 3.0A.3 3.0A.4 3.0A.5 3.0A.6 3.0A.7 3.0A.8	3.MP.1 3.MP.2 3.MP.3 3.MP.4 3.MP.5 3.MP.6 3.MP.7 3.MP.8	 Solve one-step story problems using addition and subtraction; select equations with a letter standing for the unknown quantity to represent one-step story problems Solve two-step story problems using addition and subtraction; write equations to represent two-step story problems Round whole numbers to the nearest 10; to the nearest

RELO	LUDWIG	Cat panal
Will County	y <u>L</u>	School District
15.	ENGAGE .	Mile

AGE. MINO	Multiplication, Division & Area	3.OA.9 3.NBT.2 3.MD.1 3.MD.2 3.MD.5 a-b 3.MD.6 3.MD.7 a-b 3.MD.8 3.G.1 3.G.2 3.NF.1 3.NF.2 a-b 3.NF.3 a-d	 Estimate sums to approximate solutions to problems Use strategies based on place value, properties of operations, or the relationship between addition and subtraction to add fluently with sums to 1,000 Assess the reasonableness of answers to story problems using mental computation, rounding and other estimation strategies Read and write numbers to 10,000 represented with base-ten numerals, number names and in expanded form Compare 4-digit numbers, based on an understanding of what the digits in the thousands, hundreds, tens, and ones places represent Use >, =, and < symbols to record comparisons of 4-digit numbers Order numbers from 0 to 10,000 Place fractions in their correct positions on a number line Identify equivalent fractions by comparing their sizes Recognize simple equivalent fractions; use sketches to show why two fractions must be equivalent Recognize fractions that are equivalent to whole numbers Demonstrate an understanding of a unit fraction 1/b as 1 of b equal parts into which a whole has been partitioned Partition shapes into parts with equal areas; express the area of each equal part of a whole as a unit fraction of the whole Represent fractions with denominators of 2, 3, 4, 6, and 8 as parts of a whole
3	Extending Multiplication & Fractions	3.0A.5 3.0A.8 3.NBT.3	 Interpret products of whole numbers; write story problems or describe problem situations to match a multiplication expression or equation Interpret quotients of whole numbers; write story problems or describe problem situations to match a



AGE . W.	Bridge Design & Construction: Data Collection & Analysis	3.MD.1 3.MD.3 3.MD.4 3.MD.6 3.MD.7 3.MD.8	products to 100 involvarrays Solve for the unknown equation involving 3 w Solve division problem Fluently multiply and dividends to 100 using Solve two-step story prodivision; write/select for the unknown quant problems Find the area of plane cover the figure witho Find the area of rectilitiength and width Find the perimeter of Solve division problem (e.g., solve 32 ÷ 8 by fix when multiplied by 8) Solve story problems to rectangle figure that non-overlapping rectation-overlapping rectation in unknown side perimeter and other six lidentify attributes of orgroup polygons based Partition shapes into parea of each equal participation in the same perimeter with the same perimeter.	in a multiplication or division whole numbers as by finding an unknown factor divide with products and strategies problems using multiplication and equations with a letter standing tity to represent two-step story figures by using square units to at overlapping mear figures by multiplying the polygons as by finding an unknown factor anding the number that makes 32 that call for finding the area of a can be decomposed into negles allength of a polygon, given its de lengths uadrilaterals and categorize and on their attributes arts with equal areas/ express the cof a whole as a unit fraction of the that involve creating rectangles are but different areas/ same areas are explain the reasoning for why