

Third Grade Mathematics Curriculum

ELO #1: Place Value - Students will compare and order, compose and decompose numbers up to 10,000 utilizing the base ten model.

ELO Standards

- 3.NBT.A.1 Round whole numbers to the nearest 10 or 100.
Read, write and identify whole numbers within 100,000 using base ten numerals, number names and expanded form.
- 3.NBT.A.2

Supporting Standards

- Prior Knowledge Understanding of 1,000 as groups of 10 hundreds.
Prior Knowledge Count within 10,000 by 1s, 10s, 100s, and 1,000s.

Instructional and Assessment Resources

- Math in Focus Chapter 1
Math in Focus Assessments

ELO #2: Addition & Subtraction - Students will add and subtract with and without regrouping up to 10,000.

ELO Standards

- 3.NBT.A.3 Demonstrate fluency with addition and subtraction within 1000.

Supporting Standards

- Prior Knowledge Fluency / mastery of basic addition and subtraction facts.
- 3.RA.D.10 Interpret the reasonableness of answers using mental computation and estimation strategies including rounding.

Instructional and Assessment Resources

- Math in Focus Chapters 3, 4
Math in Focus Assessments

ELO #3: Multiplication & Division - Students will multiply & divide facts up to 10.

ELO Standards

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| 3.NBT.A.4 | Multiply whole numbers by multiples of 10 in the range 10-90. |
| 3.RA.A.1 | Interpret products of whole numbers. |
| 3.RA.A.2 | Interpret quotients of whole numbers. |
| 3.RA.A.3 | Describe in words or drawings a problem that illustrates a multiplication or division situation. |
| 3.RA.A.4 | Use multiplication and division within 100 to solve problems. |
| 3.RA.A.5 | Determine the unknown number in a multiplication or division equation relating three whole numbers. |
| 3.RA.B.6 | Apply properties of operations as strategies to multiply and divide. |
| 3.RA.C.7 | Multiply and divide with numbers and results within 100 using strategies such as the relationship between multiplication and division or properties of operations. Know all products of two one-digit numbers. |
| 3.RA.C.8 | Demonstrate fluency with products within 100. |

Supporting Standards

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| 3.RA.D.9 | Write & solve two-step problems involving variables using any of the four operations. |
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Instructional and Assessment Resources

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| Math in Focus | Chapter 6 |
| Math in Focus | Assessments |

ELO #4: Problem Solving - Students will use the four operations to solve real world word problems.

ELO Standards

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| 3.RA.D.9 | Write and solve two-step problems involving variables using any of the four operations. |
| 3.RA.E.11 | Identify arithmetic patterns and explain the patterns using properties of operations. |
| 3.GM.B.6 | Solve problems involving addition and subtraction of minutes. |
| 3.GM.B.8 | Use the four operations to solve problems involving lengths, liquid volumes or weights given in the same units. |
| 3.GM.D.15 | Solve problems involving perimeters of polygons. |
| 3.DS.A.2 | Solve one- and two-step problems using information presented in bar and/or picture graphs. |

Supporting Standards

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| 3.RA.D.10 | Interpret the reasonableness of answers using mental computation and estimation strategies including rounding. |
| 3.GM.B.4 | Tell and write time to the nearest minute. |
| 3.GM.B.5 | Estimate time intervals in minutes. |
| 3.GM.B.7 | Measure or estimate length, liquid volume and weight of objects. |
| 3.DS.A.1 | Create frequency tables, scaled picture graphs and bar graphs to represent a data set with several categories. |
| 3.DS.A.3 | Create a line plot to represent data. |
| 3.DS.A.4 | Use data shown in a line plot to answer questions. |
| 3.RA.A.3 | Describe in words or drawings a problem that illustrates a multiplication or division situation. |

Instructional and Assessment Resources

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| Math in Focus | Chapters 5, 9, 12 and Sections 10.3, 16.7 |
| Math in Focus | Assessments |

ELO #5: Geometry - Students will identify polygons, compare and contrast the attributes of quadrilaterals, and find area and perimeter with and without unknown sides.

ELO Standards

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| 3.GM.A.1 | Understand that shapes in different categories may share attributes and that the shared attributes can define a larger category. |
| 3.GM.A.2 | Distinguish rhombuses and rectangles as examples of quadrilaterals, and draw examples of quadrilaterals that do not belong to these subcategories. |
| 3.GM.A.3 | Partition shapes into parts with equal areas, and express the area of each part as a unit fraction of the whole. |
| 3.GM.C.9 | Calculate area by using unit squares to cover a plane figure with no gaps or overlaps. |
| 3.GM.C.10 | Label area measurements with squared units. |
| 3.GM.C.11 | Demonstrate that tiling a rectangle to find the area and multiplying the side lengths result in the same value. |
| 3.GM.C.12 | Multiply whole-number side lengths to solve problems involving the area of rectangles. |
| 3.GM.C.13 | Find rectangular arrangements that can be formed for a given area. |
| 3.GM.C.14 | Decompose a rectangle into smaller rectangles to find the area of the original rectangle. |
| 3.GM.D.16 | Understand that rectangles can have equal perimeters but different areas, or rectangles can have equal areas but different perimeters. |

Supporting Standards

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| 2.GM.B.4 | Measure the length of an object by selecting and using appropriate tools. |
| 2.GM.B.5 | Analyze the results of measuring the same object with different units. |
| 2.GM.B.6 | Estimate lengths using units of inches, feet, yards, centimeters and meters. |
| 2.GM.B.7 | Measure to determine how much longer one object is than another. |
| 2.GM.C.8 | Use addition and subtraction within 100 to solve problems involving lengths that are given in the same units. |

Instructional and Assessment Resources

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| Math in Focus | Chapters 17, 18, 19 |
| Math in Focus | Assessments |

ELO #6: Fractions - Students will identify fractions as part of a whole and as a number line, find equivalent fractions, compare and order with same numerator or denominator by relating its size.

ELO Standards

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| 3.NF.A.1 | Understand a unit fraction as the quantity formed by one part when a whole is partitioned into equal parts. |
| 3.NF.A.2a | Understand that when a whole is partitioned equally, a fraction can be used to represent a portion of the whole. |
| 3.NF.A.2b | Understand that when a whole is partitioned equally, a fraction can be used to represent a portion of the whole. |
| 3.NF.A.3a | Represent fractions on a number line. |
| 3.NF.A.3b | Represent fractions on a number line. |
| 3.NF.A.3c | Represent fractions on a number line. |
| 3.NF.A.4 | Demonstrate that two fractions are equivalent if they are the same size, or the same point on a number line. |
| 3.NF.A.5 | Recognize and generate equivalent fractions using visual models, and justify why the fractions are equivalent. |
| 3.NF.A.6 | Compare two fractions with the same numerator or denominator using the symbols $>$, $=$ or $<$, and justify the solution. |
| 3.NF.A.7 | Explain why fraction comparisons are only valid when the two fractions refer to the same whole. |

Supporting Standards

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| 3.RA.D.10 | Interpret the reasonableness of answers using mental computation and estimation strategies including rounding. |
| 3.GM.A.3 | Partition shapes into parts with equal areas, and express the area of each part as a unit fraction of the whole. |
| 3.RA.A.4 | Use multiplication and division within 100 to solve problems. |
| 3.RA.A.5 | Determine the unknown number in a multiplication or division equation relating three |
| 3.RA.B.6 | Apply properties of operations as strategies to multiply and divide. |
| 3.RA.C.7 | Multiply and divide with numbers and results within 100 using strategies such as the |
| 3.RA.C.8 | Demonstrate fluency with products within 100. |

Instructional and Assessment Resources

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| Math in Focus | Chapter 14 |
| Math in Focus | Assessments |