



SuccessMaker[®]

**Missouri Mathematics Learning Standards:
Grade Level Expectations 2016, Grade 3**

Alignments to SuccessMaker

Providing rigorous intervention
for K-8 learners with unparalleled precision

| Missouri Learning Standards Code | Missouri Mathematics Learning Standards: Grade Level Expectations, 2016 Grade 3 | SuccessMaker Item Description | Item ID |
|----------------------------------|---|---|---------------|
| NS | Number Sense | | |
| NBT | Number Sense and Operations in Base Ten | | |
| NBT.A | Use place value understanding and properties of operations to perform multi-digit arithmetic. | | |
| NBT.A.1 | Round whole numbers to the nearest 10 or 100. | Round a two-digit number to the nearest ten (hundreds chart). | SMMA_LO_01648 |
| | | Round a three-digit number to the nearest hundred. | SMMA_LO_01036 |
| | | Round a three-digit number to the nearest hundred. | SMMA_LO_01650 |
| | | Round a two-digit number to the nearest ten. | SMMA_LO_01649 |
| | | Identify the best estimate for a sum of two numbers (two-digit addends, round to the nearest 10). | SMMA_LO_01052 |
| | | Round a three-digit number to the nearest hundred. | SMMA_LO_01652 |
| | | Round two-digit numbers to the nearest ten. | SMMA_LO_01647 |
| | | Estimate the sum by rounding to the nearest 10 (two-digit addends). | SMMA_LO_01615 |
| | | Round a two-digit number to the nearest ten. | SMMA_LO_01028 |
| | | Round a three-digit number to the nearest hundred. | SMMA_LO_01651 |
| | | Estimate the sum or difference in a money problem by rounding to the nearest 10 (two-digit sums and differences). | SMMA_LO_01580 |

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| NBT.A.3 | Demonstrate fluency with addition and subtraction within 1000. | Practice addition using basic facts; sums less than or equal to 15. | SMMA_SG_00310 |
| | | Practice subtraction using basic facts; minuends, subtrahends less than or equal to 12. | SMMA_SG_00380 |
| | | Practice addition using basic facts; sums less than or equal to 15. | SMMA_SG_00340 |
| | | Practice subtraction using basic facts; minuends, subtrahends less than or equal to 12. | SMMA_SG_00320 |
| | | Identify the missing operation in a subtraction or addition number sentence (basic facts). | SMMA_LO_01031 |
| | | Practice subtraction using basic facts; minuends, subtrahends less than or equal to 12. | SMMA_SG_00370 |
| | | Practice addition using basic facts; sums less than or equal to 15. | SMMA_SG_00300 |
| | | Practice subtraction using basic facts; minuends, subtrahends less than or equal to 12. | SMMA_SG_00360 |
| | | Practice addition using basic facts; sums less than or equal to 20. | SMMA_SG_00390 |

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| NF | Number Sense and Operations in Fractions | | |
| NF.A | Develop understanding of fractions as numbers. | | |
| NF.A.3 | Represent fractions on a number line. | | |
| NF.A.3.b | Understand the whole is partitioned into equal parts. | Count shaded parts and the total number of parts (halves to eighths). | SMMA_LO_00419 |
| NF.A.4 | Demonstrate that two fractions are equivalent if they are the same size, or the same point on a number line. | Model equivalent fractions; identify equivalent fractions on a number line. | SMMA_LO_02035 |
| RA | Relationships and Algebraic Thinking | | |
| RA.A | Represent and solve problems involving multiplication and division. | | |
| RA.A.3 | Describe in words or drawings a problem that illustrates a multiplication or division situation. | Divide using graphic models (combinations to 5×5). | SMMA_LO_00279 |
| | | Identify and solve an expression that represents a multiplication problem in context (products 3×4 to 9×9). | SMMA_LO_01590 |
| | | Identify the number sentence that represents a division problem in context (model shown, dividends to 20). | SMMA_LO_01569 |
| | | Solve a multiplication problem in context (counting feedback, products 2×2 to 5×5). | SMMA_LO_01572 |

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| RA.A.4 | Use multiplication and division within 100 to solve problems. | Solve a multiplication problem in context with extra information. | SMMA_LO_01589 |
| | | Identify and solve an expression that represents a multiplication problem in context (products 3 x 4 to 9 x 9). | SMMA_LO_01590 |
| | | Identify a picture that represents a multiplication problem (basic facts). | SMMA_LO_01246 |
| | | Make a picture to solve a partitive division problem (dividends to 20). | SMMA_LO_01564 |
| | | Solve a multiplication problem in context (repeated addition feedback, products 2 x 2 to 5 x 5). | SMMA_LO_01578 |
| | | Identify a picture that represents a division problem (math facts). | SMMA_LO_01245 |
| | | Solve a subtraction problem in context (extra information, minuends 2 to 99, no regrouping). | SMMA_LO_01581 |
| | | Make a picture to solve a multiplication problem (basic facts). | SMMA_LO_01237 |
| | | Make a picture to solve a division problem (math facts). | SMMA_LO_01238 |
| | | Make a picture to solve a quotitive division problem (dividends to 20). | SMMA_LO_01565 |
| | | Solve a multiplication problem in context (counting feedback, products 2 x 2 to 5 x 5). | SMMA_LO_01572 |
| | | Identify and solve an expression that represents a multiplication problem in context (model shown, products to 32). | SMMA_LO_01570 |

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| RA.C | Multiply and divide within 100. | | |
| RA.C.1 | 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. | Multiply two one-digit numbers (products 1 x 2 to 5 x 5). | SMMA_LO_00861 |
| | | Find the missing factor (products to 5 x 5). | SMMA_LO_00856 |
| | | Identify a picture that represents a multiplication problem (basic facts). | SMMA_LO_01246 |
| | | Multiply two one-digit numbers (products 6 x 6 to 9 x 9). | SMMA_LO_00867 |
| | | Find the missing factor (products 1 x 6 to 9 x 5). | SMMA_LO_00864 |
| | | Make a picture to solve a partitive division problem (dividends to 20). | SMMA_LO_01564 |
| | | Find the missing factor (products 6 x 6 to 9 x 9). | SMMA_LO_00877 |
| | | Multiply two one-digit numbers (products 1 x 6 to 5 x 9). | SMMA_LO_00863 |
| | | Find the missing factor (products 1 x 6 to 5 x 9). | SMMA_LO_00862 |
| | | Find the missing factor (products to 5 x 5). | SMMA_LO_00858 |
| | | Multiply two one-digit numbers (displayed horizontally (products 1 x 6 to 5 x 9). | SMMA_LO_00859 |
| | | Find the missing factor (products 6 x 1 to 9 x 5). | SMMA_LO_00866 |
| | | Identify a picture that represents a division problem (math facts). | SMMA_LO_01245 |

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| | | Solve a subtraction problem in context (extra information, minuends 2 to 99, no regrouping). | SMMA_LO_01581 |
| | | Make a picture to solve a multiplication problem (basic facts). | SMMA_LO_01237 |
| | | Find the missing factor (products 6 x 6 to 9 x 9). | SMMA_LO_00873 |
| | | Make a picture to solve a division problem (math facts). | SMMA_LO_01238 |
| | | Find the missing factor (products 1 x 6 to 5 x 9). | SMMA_LO_00860 |
| | | Multiply two one-digit numbers displayed horizontally (products 6 x 6 to 9 x 9). | SMMA_LO_00868 |
| | | Multiply two one-digit numbers (products 6 x 2 to 9 x 5). | SMMA_LO_00865 |
| | | Complete fact families with four facts (products 2 x 3 to 8 x 9). | SMMA_LO_00344 |
| | | Divide using basic facts (combinations to 5 x 5). | SMMA_LO_00280 |
| | | Divide (combinations 6 x 6 to 9 x 9, no remainder). | SMMA_LO_00284 |
| | | Make a picture to solve a quotitive division problem (dividends to 20). | SMMA_LO_01565 |
| | | Divide using basic facts (combinations 2 x 6 to 9 x 5). | SMMA_LO_00282 |
| | | Multiply whole numbers (products to 5 x 5). | SMMA_LO_00855 |
| | | Multiply two one-digit numbers (products 6 x 1 to 9 x 5). | SMMA_LO_00857 |

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| RA.D | Use the four operations to solve word problems. | | |
| RA.D.2 | Interpret the reasonableness of answers using mental computation and estimation strategies including rounding. | Identify the most reasonable quantity for a context (order of magnitude differs). | SMMA_LO_01586 |
| | | Determine the reasonableness of a sum or difference (two- and three-digit numbers). | SMMA_LO_01259 |
| | | Identify the reasonable weight of an object (ounces, pounds, and tons). | SMMA_LO_00787 |
| RA.E | Identify and explain arithmetic patterns. | | |
| RA.E.1 | Identify arithmetic patterns and explain the patterns using properties of operations. | Identify the missing picture in a 1-2-3-1-2-3 pattern. | SMMA_LO_00607 |
| GM | Geometry and Measurement | | |
| GM.A | Reason with shapes and their attributes. | | |
| GM.A.3 | Partition shapes into parts with equal areas, and express the area of each part as a unit fraction of the whole. | Partition shapes into equal parts. | SMMA_LO_02000 |
| GM.B | Solve problems involving the measurement of time, liquid volumes and weights of objects. | | |
| GM.B.1 | Tell and write time to the nearest minute. | Set the digital clock to match the time on the analog clock to the exact minute. | SMMA_LO_01670 |
| GM.B.3 | Solve problems involving addition and subtraction of minutes. | Compare the difference of two times to a given time (1 to 24 hours, across 12 o'clock). | SMMA_LO_00155 |
| | | Show time 1 to 11 hours and 5 to 55 minutes before or after the time shown (alog and digital clocks). | SMMA_LO_00775 |
| | | Find the time one to twelve hours and ten to fifty-five minutes from a starting time. | SMMA_LO_00175 |

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| | | Find the time one to five hours before or after a given time (not crossing 12 o'clock). | SMMA_LO_00153 |
| | | Find the time one to five hours before or after a given time (across 12 o'clock). | SMMA_LO_00162 |
| | | Solve a problem by identifying the time 1 to 2 hours after a given time (not crossing 12 o'clock). | SMMA_LO_01547 |
| | | Show time 1 to 11 hours and 5 to 55 minutes before or after the time shown (analog and digital clocks). | SMMA_LO_02155 |
| GM.B.4 | Measure or estimate length, liquid volume and weight of objects. | Identify the reasonable weight of an object (ounces, pounds, and tons). | SMMA_LO_00787 |
| GM.B.5 | Use the four operations to solve problems involving lengths, liquid volumes or weights given in the same units. | Read weights from a chart; choose two weights that equal a given total (sums to 1,500). | SMMA_LO_01301 |
| GM.C | Understand concepts of area. | | |
| GM.C.1 | Calculate area by using unit squares to cover a plane figure with no gaps or overlaps. | Identify a unit square and what attribute it is used to measure. | SMMA_LO_02027 |
| GM.C.3 | Demonstrate that tiling a rectangle to find the area and multiplying the side lengths result in the same value. | Find the area of a rectangle by tiling it; complete an equation to show that the area is the same as would be found by multiplying the side lengths. | SMMA_LO_02029 |
| | | Multiply side lengths to find the area of a rectangle in a real-world context; use area to represent a whole-number product by arranging tiles in a rectangle. | SMMA_LO_02030 |

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| | | Tile a rectangle to find its area; represent the area of the rectangle in two different ways (length times width and the sum of the areas of two smaller rectangles). | SMMA_LO_02031 |
| GM.C.6 | Decompose a rectangle into smaller rectangles to find the area of the original rectangle. | Find the sum of the areas of two figures (sums 3 to 8, nonstandard units). | SMMA_LO_00752 |
| | | Find the area of a rectilinear figure in a context by decomposing it into two rectangles. | SMMA_LO_02032 |
| | | Tile a rectangle to find its area; represent the area of the rectangle in two different ways (length times width and the sum of the areas of two smaller rectangles). | SMMA_LO_02031 |
| DS | Data and Statistics | | |
| DS.A | Represent and analyze data. | | |
| DS.A.1 | Create frequency tables, scaled picture graphs and bar graphs to represent a data set with several categories. | Read a bar graph and answer questions about tree growth over time. | SMMA_LO_01304 |
| | | Read and interpret data about tree growth from a bar graph. | SMMA_LO_01302 |

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| DS.A.2 | Solve one- and two-step problems using information presented in bar and/or picture graphs. | Read and interpret a pictograph about birds counted (2 to 5 birds in each row). | SMMA_LO_01299 |
| | | Read a bar graph and answer questions about tree growth over time. | SMMA_LO_01304 |
| | | Read and interpret a horizontal pictograph with a scale of 2 (five items). | SMMA_LO_00140 |
| | | Read and interpret a pictograph with a scale of 2, 5 or 10. | SMMA_LO_01158 |
| | | Given a bar graph of tree growth, calculate the height a tree grew from one year to another. | SMMA_LO_01303 |
| | | Read and interpret data about tree growth from a bar graph. | SMMA_LO_01302 |

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