|  | KINDERGARTEN |  | Mathseeds Lesson \# |  |  | Additional Mathseeds Resources |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Knowledge and Skills | Assessment | Higher Order Thinking Skills | Fluency | Assessment |
| Strand | General Outcome | Specific Outcomes | Online Lesson and Printable Resources | End-of-lesson Quiz | Critical Thinking and Problem Solving Worksheets | Driving Tests (DT) Mental Minute (MM) | Printable Achievement Standards Assessment |
| NUMBER | Develop number sense. | Say the number sequence 1 to 10 by 1 s , starting anywhere from 1 to 10 and from 10 to 1 . | 10, 16, 18, 20, 21, 25, 28, 31 |  |  | DT Early Number 2, 4, 5, 9 |  |
|  |  | Subitize (recognize at a glance) and name familiar arrangements of 1 to 5 objects or dots. | $1,2,3,5,7,11,12,14,17,19,22,24,30,32,33,34,36,40$ |  |  |  |  |
|  |  | Relate a numeral, 1 to 10 , to its respective quantity. |  |  |  | DT Early Number 1, 6, 7 |  |
|  |  | Represent and describe numbers 2 to 10 , concretely and pictorially. |  |  |  | DT Early Number 3, 10 |  |
|  |  | Compare quantities 1 to 10 , using one-to-one correspondence. |  |  |  | DT Early Number 8 | Kindergarten Number Test 3 |
| PATTERNS AND RELATIONS (Patterns) | Use patterns to describe the world and to solve problems. | Demonstrate an understanding of repeating patterns (two or three elements). | 8, 27, 37 |  |  | DT Early Patterns 1-9 |  |
|  |  | Sort a set of objects based on a single attribute, and explain the sorting rule. | 23 |  |  | DT Early Data 1-2 | Kindergarten Data Test 1 |
| SHAPE AND SPACE (Measurement) | Use direct and indirect measurement to solve problems. | Use direct comparison to compare two objects based on a single attribute, such as length (height). | 13,26 |  |  | DT Early Measurement 2, 3, 5, 6,9,10 | Kindergarten Measurement Tests 1, 2, 3 |
|  |  | Use direct comparison to compare two objects based on a single attribute, such as mass (weight). | 29 |  |  | DT Early Measurement 7, 8, 11, 12 | Kindergarten Measurement Test 4 |
|  |  | Use direct comparison to compare two objects based on a single attribute, such as volume (capacity). | 38 |  |  | DT Early Measurement 15, 16, 20 | Kindergarten Measurement Test 5 |
| SHAPE AND SPACE <br> (3-D Objects and 2-D Shapes) | Describe the characteristics of 3-D objects and 2-D shapes, and analyze the relationships among them. | Sort 3-D objects, using a single atribute. | 4, 6, 9, 15, 35, 44 |  |  | DT Early Geometry 15-18, $21-23$ | Kindergarten Geometry Tests 2, 3 |



| Strand | GRADE 2 |  |  | Mathseeds L | sson \# | Additional Math | seeds Resources |
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|  |  |  | Knowledge and Skills | Assessment | Higher Order Thinking Skills | Fluency | Assessment |
|  | General Outcome | Specific Outcomes | Online Lesson and Printable Resources | End-oflesson Quiz | Critical Thinking and Problem Solving Worksheets | Driving Tests (DT) Mental Minute (MM) | Printable Achievement Standards Assessment |
| NUMBER | Develop number sense. | Say the number sequence 0 to 100 by $2 \mathrm{~s}, 5$ s and 10 s , forward and backward. | 117 |  |  | DT Grade 2 Patterns and Fractions 1-3 |  |
|  |  | Demonstrate if a number (up to 100) is even or odd. | 108 |  |  | DT Grade 2 Operations 3 |  |
|  |  | Describe order or relative position, using ordinal numbers (up to tenth). | 63 |  |  | DT Early Number 24, 25 |  |
|  |  | Represent and describe numbers to 100, concretely, pictorially and symbolically. | 88, 122,129 |  |  | DT Grade 1 Number 8, 12, 22 |  |
|  |  | Compare and order numbers up to 100 . |  |  |  | DT Grade 1 Number 7, 14, 18, 20, 23 |  |
|  |  | Illustrate, concretely and pictorially, the meaning of place value for numerals to 100 . |  |  |  | DT Grade 1 Number 9, 17, 19, 24 | Grade 1 Number and Algebra: Place Value Tests 1-6 |
|  |  | Demonstrate an understanding of addition (limited to 1 - and 2-digit numerals) with answers to 100 and the corresponding subtraction. | $95,96,98,103,110,118,120,124,128,131,137,139,150$ |  |  | $\begin{aligned} & \text { DT Grade } 2 \text { Operations 7, 13-17, } \\ & \text { 20, } 22,2323 \text { Addition Sprints } \\ & \text { MM Subtraction Sprints } \end{aligned}$ | Grade 1 Number and Algebra: Operations Tests 4-6 Grade 2 Number and Algebra: Addition and Subtraction Tests 2-6 |
|  |  | Apply mental mathematics strategies for basic addition facts and related subtraction facts to 18 . | 142 |  |  | DT Grade 2 Operations 1, 2, 4, 5 | Grade 2 Number and Algebra: Addition and Subtraction Test 1 |
| PATTERNS AND RELATIONS (Patterns) | Use patterns to describe the world and to solve problems. | Demonstrate an understanding of increasing numerical (numbers to 100) and non-numerical patterns. | 133 |  |  | DT Grade 2 Patterns and Fractions 6-9 | Grade 2 Number and Algebra: Number Patterns Tests 1-3 |
|  |  | Sort a set of objects, using two attributes, and explain the sorting rule. |  |  |  | DT Grade 2 Data 1 |  |
| SHAPE <br> AND SPACE <br> (Measurement) | Use direct and indirect measurement to solve problems. | Relate the number of days to a week and the number of months to a year in a problem-solving context. | 42,109 |  |  | DT Grade 2 Measurement 1-5, 14, 16 |  |
|  |  | Relate the size of a unit of measure to the number of units (limited to nonstandard units) used to measure length. | 135, 141 |  |  | DT Grade 2 Measurement 11, 13, 21, 23 |  |
|  |  | Compare and order objects by length, height, distance around, and mass (weight) using nonstandard units, and make comparisons. |  |  |  | DT Grade 2 Measurement 6, 15, 17, 18, 24 |  |
|  |  | Measure length to the nearest nonstandard unit by using multiple copies of a unit or using a single unit (iteration). |  |  |  | DT Grade 2 Measurement 9, 22 | Grade 2 Measurement: Length Tests 1, 2 |
|  |  | Demonstrate that changing the orientation of an object does not alter the measurements of its attributes. | 102 |  |  |  |  |
| SHAPE AND SPACE <br> (3-D Objects and 2-D Shapes) | Describe the characteristics of 3-D objects and 2-D shapes, and analyze the relationships among them. | Sort 2-D shapes and 3-D objects, using two attributes, and explain the sorting rule. Describe, compare and construct 3-D objects, including cubes, spheres, cones, cylinders, pyramids. Describe, compare and construct 2-D shapes, including triangles, squares, rectangles, circles. Identify 2-D shapes as parts of 3-D objects in the environment. | 119, 121, 145 |  |  | DT Grade 2 Geometry 3-7, 10 | Grade 2 Geometry: Shape Tests 1-5 |
| STATISTICS AND PROBABILITY (Data Analysis) | Collect, display and analyze data to solve problems. | Gather and record data about self and others to answer questions. Construct and interpret concrete graphs and pictographs to solve problems. | 97, 143 |  |  | DT Grade 2 Data 4, 5, 7-14 | Grade 1 Statistics: Data Tests 1-5 |

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GRADE 3

General Outcome

Mathseeds Lesson \#

| Knowledge and Skills | Assessment | Higher Order Thinking Skills | Fluency | Assessment |
| :---: | :---: | :---: | :---: | :---: |
| Online Lesson and Printable Resources | End-oflesson Quiz | Critical Thinking and Problem Solving Worksheets | Driving Tests (DT) Mental Minute (MM) | Printable Achievement Standards Assessment |
| 101, 105, 106, 194 |  |  |  | Grade 2 Number and Algebra: Numbers to 1000 Test 4 |
|  |  |  |  | Grade 2 Number and Algebra: Numbers to 1000 Tests 1-3, 8 |
|  |  |  |  | Grade 2 Number and Algebra: Numbers to 1000 Test 7 |
|  |  |  |  | Grade 2 Number and Algebra: Numbers to 1000 Test 5 |
| 173 |  |  | MM Addition Sprints |  |
|  |  |  | MM Subtraction Sprints |  |
| 134, 144, 146, 148, 170, 178, 183 |  |  |  | Grade 2 Number and Algebra: Addition and Subtraction Tests 7-9 |
| 74, 113, 115, 130, 155, 158, 168, 171, 176, 181, 186, 193, 199 |  |  | MM Multiplication Sprints | Grade 2 Number and Algebra: Equal Groups Tests 1, 3, 5 |
| 71, 111, 136, 165, 181, 188, 190, 196, 199 |  |  | MM Division Sprints | Grade 2 Number and Algebra: Equal Groups Tests 2, 4 |
| 61, 66, 132, 138, 160, 175, 180, 191, 197 |  |  |  |  |
| 153, 166, 195 |  |  |  | Grade 2 Number and Algebra: Number Patterns Tests 4-7 |
| 163 |  |  |  |  |
| 39,127, 179 |  |  |  |  |
| $54,70,87,114,123,162,185,189$ |  |  |  | Grade 2 Measurement: Time Tests 1-7 |
| 104, 126, 182 |  |  |  | Grade 2 Measurement: Length Tests 4, 6 |
| 172 |  |  |  |  |
| 192 |  |  |  |  |
| 169 |  |  |  |  |
| 184 |  |  |  |  |
| 174,198 |  |  |  | Grade 2 Statistics: Data Tests 1-3, 5 |
| 187 |  |  |  | Grade 2 Statistics: Data Test 4 |

