## Spring Lake Elementary Schools

The following are embedded throughout the year, and are present in all units applicable:

## ASSESSMENTS

- InQuizIt given three times per year: September, January, May
- Discovery Education given three times per year: September, January, May
- Unit Quick Quizzes- given throughout each unit
- Unit Tests given at the end of each unit
- Interim Benchmark Assessments given periodically during the year

## MATH PRACTICES

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

| Unit   | CCSS   | Learning Target  | Resources/<br>Mentor Texts      | Assessment                    |
|--|--|--|---------------------------------|-------------------------------|
| Unit 1<br>Multiplication<br>& Division<br>0-5, 9, 10 | OPERATIONS & ALGEBRAIC THINKING<br><u>CCSS.Math.Content.3.OA.A.1</u> Interpret products<br>of whole numbers, e.g., interpret 5 × 7 as the<br>total number of objects in 5 groups of 7 objects<br>each. For example, describe a context in which<br>a total number of objects can be expressed as 5<br>× 7.   | l can understand<br>multiplication by<br>thinking about groups<br>of objects. 3.0A.1                             | Math Expressions<br>Common Core | Quick Quiz 1-4<br>Unit 1 Test |
|  | <u>CCSS.Math.Content.3.OA.A.2</u> Interpret whole-<br>number quotients of whole numbers, e.g.,<br>interpret 56 $\div$ 8 as the number of objects in<br>each share when 56 objects are partitioned<br>equally into 8 shares, or as a number of shares<br>when 56 objects are partitioned into equal<br>shares of 8 objects each. For example, describe<br>a context in which a number of shares or a<br>number of groups can be expressed as 56 $\div$ 8. | I can understand<br>division by thinking<br>about how one group<br>can be divided into<br>smaller groups. 3.0A.2 |                                 |                               |
|  | <u>CCSS.Math.Content.3.OA.A.3</u> Use multiplication<br>and division within 100 to solve word problems<br>in situations involving equal groups, arrays, and<br>measurement quantities, e.g., by using<br>drawings and equations with a symbol for the<br>unknown number to represent the problem. <sup>1</sup>   | I can use what I know<br>about multiplication<br>and division to solve<br>word problems.<br>3.0A.3               |                                 |                               |
|  | <u>CCSS.Math.Content.3.OA.A.4</u> Determine the<br>unknown whole number in a multiplication or<br>division equation relating three whole<br>numbers. For example, determine the unknown<br>number that makes the equation true in each<br>of the equations $8 \times ? = 48$ , $5 = \_ \div 3$ , $6 \times 6 = ?$  | l can find the missing<br>number in a<br>multiplication or<br>division equation.<br>3.0A.4                       |                                 |                               |
|  | CCSS.Math.Content.3.OA.B.5 Apply properties of operations as strategies to multiply and  | l can use the properties of  |                                 |                               |

| divide. <sup>2</sup> Examples: If $6 \times 4 = 24$ is known, then $4 \times 6 = 24$ is also known. (Commutative property<br>of multiplication.) $3 \times 5 \times 2$ can be found by $3 \times 5 = 15$ , then $15 \times 2 = 30$ , or by $5 \times 2 = 10$ , then<br>$3 \times 10 = 30$ . (Associative property of<br>multiplication.) Knowing that $8 \times 5 = 40$ and $8 \times 2 = 16$ , one can find $8 \times 7$ as $8 \times (5 + 2) = (8 \times 5)$<br>$+ (8 \times 2) = 40 + 16 = 56$ . (Distributive property.) | multiplication.<br>3.OA.5   |  |
|--|---|--|
| CCSS.Math.Content.3.OA.B.6 Understand<br>division as an unknown-factor problem. For<br>example, find 32 ÷ 8 by finding the number<br>that makes 32 when multiplied by 8.   | I can find the answer<br>to a division problem<br>by thinking of the<br>missing factor in a<br>multiplication<br>problem. 3.0A.6              |  |
| <u>CCSS.Math.Content.3.OA.C.7</u> Fluently multiply<br>and divide within 100, using strategies such as<br>the relationship between multiplication and<br>division (e.g., knowing that $8 \times 5 = 40$ , one<br>knows $40 \div 5 = 8$ ) or properties of operations.<br>By the end of Grade 3, know from memory all<br>products of two one-digit numbers.   | I can multiply and<br>divide within 100<br>easily and quickly<br>because I know how<br>multiplication and<br>division are related.<br>3.OA.7  |  |
| <u>CCSS.Math.Content.3.OA.D.9</u> Identify<br>arithmetic patterns (including patterns in the<br>addition table or multiplication table), and<br>explain them using properties of<br>operations. For example, observe that 4 times<br>a number is always even, and explain why 4<br>times a number can be decomposed into two<br>equal addends.   | I can find patterns in<br>addition and<br>multiplication tables<br>and explain them using<br>what I know about<br>how numbers work.<br>3.OA.9 |  |
| MEASUREMENT & DATA   |   |  |
| <u>CCSS.Math.Content.3.MD.C.5a</u> A square with side length 1 unit, called "a unit square," is  | I can understand that<br>the area of plane<br>shapes can be   |  |

| said to have "one square unit" of area, and can<br>be used to measure area.<br><u>CCSS.Math.Content.3.MD.C.5b</u> A plane figure<br>which can be covered without gaps or overlaps<br>by <i>n</i> unit squares is said to have an area<br>of <i>n</i> square units.                                  | measured in square<br>units. 3.MD.5   |  |
|---|---|--|
| <u>CCSS.Math.Content.3.MD.C.6</u> Measure areas by counting unit squares (square cm, square m, square in, square ft, and improvised units).   | l can measure areas by<br>counting unit squares.<br>3.MD.6                                    |  |
| <u>CCSS.Math.Content.3.MD.C.7a</u> Find the area of<br>a rectangle with whole-number side lengths by<br>tiling it, and show that the area is the same as<br>would be found by multiplying the side lengths.   | I can measure area by<br>using what I know<br>about multiplication<br>and addition.<br>3.MD.7 |  |
| <u>CCSS.Math.Content.3.MD.C.7b</u> Multiply side<br>lengths to find areas of rectangles with whole-<br>number side lengths in the context of solving<br>real world and mathematical problems, and<br>represent whole-number products as<br>rectangular areas in mathematical reasoning.             |   |  |
| <u>CCSS.Math.Content.3.MD.C.7c</u> Use tiling to<br>show in a concrete case that the area of a<br>rectangle with whole-number side<br>lengths $a$ and $b + c$ is the sum of $a \times b$ and $a \times c$ .<br>Use area models to represent the distributive<br>property in mathematical reasoning. |   |  |
| <u>CCSS.Math.Content.3.MD.C.7d</u> Recognize area<br>as additive. Find areas of rectilinear figures by<br>decomposing them into non-overlapping<br>rectangles and adding the areas of the non-<br>overlapping parts, applying this technique to<br>solve real world problems.                       |   |  |

| Unit 2<br>Multiplication<br>& Division<br>6-8, Multiples<br>of 10 | OPERATIONS & ALGEBRAIC THINKING<br><u>CCSS.Math.Content.3.OA.A.1</u> Interpret products<br>of whole numbers, e.g., interpret 5 × 7 as the<br>total number of objects in 5 groups of 7 objects<br>each. For example, describe a context in which<br>a total number of objects can be expressed as 5<br>× 7.<br><u>CCSS.Math.Content.3.OA.A.2</u> Interpret whole-<br>number quotients of whole numbers, e.g.,<br>interpret 56 ÷ 8 as the number of objects in<br>each share when 56 objects are partitioned<br>equally into 8 shares, or as a number of shares<br>when 56 objects are partitioned into equal<br>shares of 8 objects each. For example, describe<br>a context in which a number of shares or a<br>number of groups can be expressed as 56 ÷ 8. | I can understand<br>multiplication by<br>thinking about groups<br>of objects. 3.0A.1<br>I can understand<br>division by thinking<br>about how one group<br>can be divided into<br>smaller groups. 3.0A.2 | Math Expressions<br>Common Core | Quick Quiz 1-2<br>Unit 2 Test |
|---|--|--|---------------------------------|-------------------------------|
|   | <u>CCSS.Math.Content.3.OA.A.3</u> Use multiplication<br>and division within 100 to solve word problems<br>in situations involving equal groups, arrays, and<br>measurement quantities, e.g., by using<br>drawings and equations with a symbol for the<br>unknown number to represent the problem. <sup>1</sup><br><u>CCSS.Math.Content.3.OA.A.4</u> Determine the<br>unknown whole number in a multiplication or<br>division equation relating three whole<br>numbers. For example, determine the unknown<br>number that makes the equation true in each<br>of the equations $8 \times ? = 48$ , $5 = \_ \div 3$ , $6 \times 6 = ?$  | I can use what I know<br>about multiplication<br>and division to solve<br>word problems.<br>3.OA.3<br>I can find the missing<br>number in a<br>multiplication or<br>division equation.<br>3.OA.4         |                                 |                               |

| <b>CCSS.Math.Content.3.OA.B.5</b> Apply properties<br>of operations as strategies to multiply and<br>divide. <sup>2</sup> Examples: If $6 \times 4 = 24$ is known, then $4 \times 6 = 24$ is also known. (Commutative property<br>of multiplication.) $3 \times 5 \times 2$ can be found by $3 \times 5 = 15$ , then $15 \times 2 = 30$ , or by $5 \times 2 = 10$ , then<br>$3 \times 10 = 30$ . (Associative property of<br>multiplication.) Knowing that $8 \times 5 = 40$ and $8 \times 2 = 16$ , one can find $8 \times 7$ as $8 \times (5 + 2) = (8 \times 5)$<br>$+ (8 \times 2) = 40 + 16 = 56$ . (Distributive property.) | l can use the<br>properties of<br>multiplication.<br>3.OA.5   |  |
|---|---|--|
| CCSS.Math.Content.3.OA.B.6 Understand<br>division as an unknown-factor problem. For<br>example, find 32 ÷ 8 by finding the number<br>that makes 32 when multiplied by 8.  | I can find the answer<br>to a division problem<br>by thinking of the<br>missing factor in<br>a multiplication<br>problem. (I can figure<br>out 32 ¤ 8 because I<br>know that 8 x 4 = 32.)<br>3.OA.6 |  |
| <u>CCSS.Math.Content.3.OA.C.7</u> Fluently multiply<br>and divide within 100, using strategies such as<br>the relationship between multiplication and<br>division (e.g., knowing that $8 \times 5 = 40$ , one<br>knows $40 \div 5 = 8$ ) or properties of operations.<br>By the end of Grade 3, know from memory all<br>products of two one-digit numbers.  | I can multiply and<br>divide within 100<br>easily and quickly<br>because I know how<br>multiplication and<br>division are related.<br>3.0A.7  |  |
| CCSS.Math.Content.3.OA.D.8 Solve two-step<br>word problems using the four operations.<br>Represent these problems using equations with<br>a letter standing for the unknown quantity.<br>Assess the reasonableness of answers using<br>mental computation and estimation strategies   | I can use addition,<br>subtraction,<br>multiplication and<br>division to solve all<br>kinds of word<br>problems and then use<br>mental math to decide   |  |

|  | including rounding. <sup>3</sup><br><u>CCSS.Math.Content.3.OA.D.9</u> Identify<br>arithmetic patterns (including patterns in the<br>addition table or multiplication table), and<br>explain them using properties of<br>operations. For example, observe that 4 times<br>a number is always even, and explain why 4<br>times a number can be decomposed into two<br>equal addends. | if my answers are<br>reasonable.<br>3.OA.8<br>I can find patterns in<br>addition and<br>multiplication tables<br>and explain them using<br>what I know about<br>how numbers work.<br>3.OA.9 |                                 |                               |
|--|--|---|---------------------------------|-------------------------------|
| Unit 3<br>Measurement,<br>Time &<br>Graphs | NUMBER & OPERATIONS IN BASE 10<br><u>CCSS.Math.Content.3.NBT.A.3</u> Multiply one-digit<br>whole numbers by multiples of 10 in the range<br>10-90 (e.g., 9 × 80, 5 × 60) using strategies<br>based on place value and properties of<br>operations.<br><u>MEASUREMENT &amp; DATA</u>  | I can quickly and<br>easily multiply any one<br>digit whole number by<br>10. 3.NBT.3  | Math Expressions<br>Common Core | Quick Quiz 1-3<br>Unit 3 Test |
|  | CCSS.Math.Content.3.MD.C.5a A square with<br>side length 1 unit, called "a unit square," is said<br>to have "one square unit" of area, and can be<br>used to measure area.<br>CCSS.Math.Content.3.MD.C.5b A plane figure<br>which can be covered without gaps or overlaps<br>by <i>n</i> unit squares is said to have an area  | I can understand that<br>the area of plane<br>shapes can be<br>measured in square<br>units. 3.MD.5  |                                 |                               |

|   | of <i>n</i> square units.   |  |                                 |                               |
|---|---|--|---------------------------------|-------------------------------|
|   | <ul> <li><u>CCSS.Math.Content.3.MD.C.7</u> Relate area to the operations of multiplication and addition.</li> <li><u>CCSS.Math.Content.3.MD.C.7a</u> Find the area of a rectangle with whole-number side lengths by tiling it, and show that the area is the same as would be found by multiplying the side lengths.</li> <li><u>CCSS.Math.Content.3.MD.C.7b</u> Multiply side lengths to find areas of rectangles with whole-number side lengths in the context of solving real world and mathematical problems, and represent whole-number products as rectangular areas in mathematical reasoning.</li> <li><u>CCSS.Math.Content.3.MD.C.7d</u> Recognize area as additive. Find areas of rectilinear figures by decomposing them into non-overlapping rectangles and adding the areas of the non-overlapping parts, applying this technique to solve real world problems.</li> </ul> | I can measure area by<br>using what I know<br>about multiplication<br>and addition.<br>3.MD.7<br>I can measure area by<br>using what I know<br>about multiplication<br>and addition.<br>3.MD.7 |                                 |                               |
| Unit 4<br>Multidigit<br>Addition &<br>Subtraction | OPERATIONS & ALGEBRAIC THINKING<br><u>CCSS.Math.Content.3.0A.A.3</u> Use multiplication<br>and division within 100 to solve word problems<br>in situations involving equal groups, arrays, and<br>measurement quantities, e.g., by using<br>drawings and equations with a symbol for the<br>unknown number to represent the problem. <sup>1</sup><br>NUMBER & OPERATIONS IN BASE 10   | I can use what I know<br>about multiplication<br>and division to solve<br>word problems.<br>3.OA.3   | Math Expressions<br>Common Core | Quick Quiz 1-3<br>Unit 4 Test |

| <u>CCSS.Math.Content.3.NBT.A.2</u> Fluently add and<br>subtract within 1000 using strategies and<br>algorithms based on place value, properties of<br>operations, and/or the relationship between<br>addition and subtraction.  | I can add and subtract<br>numbers within 1000.<br>3.NBT.2   |  |
|---|---|--|
| MEASUREMENT & DATA  |   |  |
| <u>CCSS.Math.Content.3.MD.A.1</u> Tell and write<br>time to the nearest minute and measure time<br>intervals in minutes. Solve word problems<br>involving addition and subtraction of time<br>intervals in minutes, e.g., by representing the<br>problem on a number line diagram.  | I can tell and write<br>time to the nearest<br>minute. 3.MD.1<br>I can measure time in<br>minutes. 3.MD.1   |  |
|   | I can solve telling<br>time word problems by<br>adding and subtracting<br>minutes. 3.MD.1   |  |
| <u>CCSS.Math.Content.3.MD.A.2</u> Measure and<br>estimate liquid volumes and masses of objects<br>using standard units of grams (g), kilograms<br>(kg), and liters (l). <sup>1</sup> Add, subtract, multiply, or<br>divide to solve one-step word problems<br>involving masses or volumes that are given in<br>the same units, e.g., by using drawings (such as<br>a beaker with a measurement scale) to<br>represent the problem. <sup>2</sup> | I can measure liquids<br>and solids with liters,<br>grams and kilograms.<br>3.MD.2<br>I can use addition,<br>subtraction,<br>multiplication and<br>division to solve word<br>problems involving<br>mass and volume.<br>3.MD.2 |  |
| <u>CCSS.Math.Content.3.MD.B.3</u> Draw a scaled<br>picture graph and a scaled bar graph to<br>represent a data set with several categories.   | I can create a picture<br>or bar graph to show<br>data and solve  |  |

|  | Solve one- and two-step "how many more" and<br>"how many less" problems using information<br>presented in scaled bar graphs. For example,<br>draw a bar graph in which each square in the<br>bar graph might represent 5 pets.<br><u>CCSS.Math.Content.3.MD.B.4</u> Generate<br>measurement data by measuring lengths using<br>rulers marked with halves and fourths of an<br>inch. Show the data by making a line plot,<br>where the horizontal scale is marked off in<br>appropriate units— whole numbers, halves, or<br>quarters. | problems using the<br>information from the<br>graphs. 3.MD.3<br>I can create a line plot<br>from measurement<br>data, where the<br>measured objects have<br>been measured to the<br>nearest whole<br>number, half or<br>quarter. 3.MD.4 |                                 |                               |
|--|--|---|---------------------------------|-------------------------------|
| Unit 5 Write<br>Equations to<br>Solve Word<br>Problems | <b>OPERATIONS &amp; ALGEBRAIC THINKING</b><br><u>CCSS.Math.Content.3.OA.D.8</u> Solve two-step<br>word problems using the four operations.<br>Represent these problems using equations with<br>a letter standing for the unknown quantity.<br>Assess the reasonableness of answers using<br>mental computation and estimation strategies<br>including rounding. <sup>3</sup>   | I can use addition,<br>subtraction,<br>multiplication and<br>division to solve all<br>kinds of word<br>problems and then use<br>mental math to decide<br>if my answers are<br>reasonable.<br>3.OA.8                                     | Math Expressions<br>Common Core | Quick Quiz 1-2<br>Unit 5 Test |
|  | <u>CCSS.Math.Content.3.OA.D.9</u> Identify<br>arithmetic patterns (including patterns in the<br>addition table or multiplication table), and<br>explain them using properties of<br>operations. For example, observe that 4 times<br>a number is always even, and explain why 4<br>times a number can be decomposed into two   | I can find patterns in<br>addition and<br>multiplication tables<br>and explain them using<br>what I know about<br>how numbers work.<br>3.0A.9   |                                 |                               |

|  | egual addends.  |  |                                 |                               |
|--|---|--|---------------------------------|-------------------------------|
|  | NUMBER & OPERATIONS IN BASE 10  |  |                                 |                               |
|  | <u>CCSS.Math.Content.3.NBT.A.1</u> Use place value<br>understanding to round whole numbers to the<br>nearest 10 or 100.   | I can round numbers to<br>the nearest ten or 100.<br>3.NBT.1   |                                 |                               |
|  | <u>CCSS.Math.Content.3.NBT.A.2</u> Fluently add and<br>subtract within 1000 using strategies and<br>algorithms based on place value, properties of<br>operations, and/or the relationship between<br>addition and subtraction.  | I can add and subtract<br>numbers within 1000.<br>3.NBT.2  |                                 |                               |
| Unit 6<br>Polygons,<br>Perimeter &<br>Area | <b>OPERATIONS &amp; ALGEBRAIC THINKING</b><br><u>CCSS.Math.Content.3.OA.A.3</u> Use multiplication<br>and division within 100 to solve word problems<br>in situations involving equal groups, arrays, and<br>measurement quantities, e.g., by using<br>drawings and equations with a symbol for the<br>unknown number to represent the problem. <sup>1</sup><br><u>CCSS.Math.Content.3.OA.A.4</u> Determine the<br>unknown whole number in a multiplication or<br>division equation relating three whole<br>numbers. For example, determine the unknown<br>number that makes the equation true in each<br>of the equations $8 \times ? = 48$ , $5 = \_ \div 3$ , $6 \times 6 = ?$ | I can use what I know<br>about multiplication<br>and division to solve<br>word problems.<br>3.OA.3<br>I can find the missing<br>number in a<br>multiplication or<br>division equation.<br>3.OA.4 | Math Expressions<br>Common Core | Quick Quiz 1-2<br>Unit 6 Test |
|  | <u>CCSS.Math.Content.3.OA.D.8</u> Solve two-step<br>word problems using the four operations.<br>Represent these problems using equations with   | I can use addition,<br>subtraction,<br>multiplication and  |                                 |                               |

| a letter standing for the unknown quantity         | division to solve all   |  |
|--|-------------------------|--|
| $\Delta$ ssess the reasonableness of answers using | kinds of word           |  |
| mental computation and estimation strategies       | problems and then use   |  |
| including rounding <sup>3</sup>                    | mental math to decide   |  |
|  | if my answers are       |  |
|  | rosconable              |  |
|  |                         |  |
|  | 3.UA.0                  |  |
| NUMBER & OPERATIONS IN BASE 10                     |                         |  |
|  |                         |  |
| <u>CCSS.Math.Content.3.NBI.A.1</u> Use place value |                         |  |
| understanding to round whole numbers to the        | I can round numbers to  |  |
| nearest 10 or 100.                                 | the nearest ten or 100. |  |
|  | 3.NBT.1                 |  |
| CCSS.Math.Content.3.NBT.A.2 Fluently add and       |                         |  |
| subtract within 1000 using strategies and          |                         |  |
| algorithms based on place value, properties of     | I can add and subtract  |  |
| operations and/or the relationship between         | numbers within 1000.    |  |
| addition and subtraction                           | 3.NBT.2                 |  |
| addition and subtraction.                          |                         |  |
| MEASUREMENT & DATA                                 |                         |  |
|  |                         |  |
| CCSS.Math.Content.3.MD.C.5 Recognize area as       |                         |  |
| an attribute of plane figures and understand       | I can understand that   |  |
| concepts of area measurement.                      | the area of plane       |  |
|  | shapes can be           |  |
| CCSS.Math.Content.3.MD.C.5a A square with          | measured in square      |  |
| side length 1 unit called "a unit square." is said | units. 3.MD.5           |  |
| to have "one square unit" of area, and can be      |                         |  |
| used to measure area                               |                         |  |
|  |                         |  |
| CCSS Math Content 3 MD C 5b A plane figure         |                         |  |
| which can be covered without gaps or overlaps      |                         |  |
| by n unit squares is said to have an area          |                         |  |
| of n square units                                  |                         |  |
| or in square units.                                |                         |  |
| CCSS Math Content 3 MD C 6 Measure areas by        | Lean moasuro aroas bu   |  |
| counting unit squares (square cm_square m          | counting unit squares   |  |
| counting unit squares (square cin, square in,      | counting unit squares.  |  |

| square in, square ft, and improvised units).  | 3.MD.6   |  |
|---|--|--|
| CCSS.Math.Content.3.MD.C.7 Relate area to the operations of multiplication and addition.<br>CCSS.Math.Content.3.MD.C.7a Find the area of a rectangle with whole-number side lengths by tiling it, and show that the area is the same as would be found by multiplying the side lengths.             | I can measure area by<br>using what I know<br>about multiplication<br>and addition.<br>3.MD.7            |  |
| <u>CCSS.Math.Content.3.MD.C.7b</u> Multiply side<br>lengths to find areas of rectangles with whole-<br>number side lengths in the context of solving<br>real world and mathematical problems, and<br>represent whole-number products as<br>rectangular areas in mathematical reasoning.             |  |  |
| <u>CCSS.Math.Content.3.MD.C.7c</u> Use tiling to<br>show in a concrete case that the area of a<br>rectangle with whole-number side<br>lengths $a$ and $b + c$ is the sum of $a \times b$ and $a \times c$ .<br>Use area models to represent the distributive<br>property in mathematical reasoning. |  |  |
| <u>CCSS.Math.Content.3.MD.C.7d</u> Recognize area<br>as additive. Find areas of rectilinear figures by<br>decomposing them into non-overlapping<br>rectangles and adding the areas of the non-<br>overlapping parts, applying this technique to<br>solve real world problems.                       |  |  |
| <u>CCSS.Math.Content.3.MD.D.8</u> Solve real world<br>and mathematical problems involving<br>perimeters of polygons, including finding the<br>perimeter given the side lengths, finding an<br>unknown side length, and exhibiting rectangles<br>with the same perimeter and different areas or      | I can solve real world<br>math problems using<br>what I know about the<br>perimeter of shapes.<br>3.MD.8 |  |

|                                | with the same area and different perimeters.   |   |                                 |                               |
|--------------------------------|--|---|---------------------------------|-------------------------------|
|                                | GEOMETRY   |   |                                 |                               |
|                                | <u>CCSS.Math.Content.3.G.A.1</u> Understand that<br>shapes in different categories (e.g., rhombuses,<br>rectangles, and others) may share attributes<br>(e.g., having four sides), and that the shared<br>attributes can define a larger category (e.g.,<br>quadrilaterals). Recognize rhombuses,<br>rectangles, and squares as examples of<br>quadrilaterals, and draw examples of<br>quadrilaterals that do not belong to any of<br>these subcategories. | I can place shapes into<br>categories depending<br>upon their attributes.<br>3.G.1<br>I can recognize and<br>draw quadrilaterals<br>such as rhombuses,<br>rectangles and<br>squares, as well as<br>other examples of<br>quadrilaterals. 3.G.1 |                                 |                               |
|                                | <u>CCSS.Math.Content.3.G.A.2</u> Partition shapes<br>into parts with equal areas. Express the area of<br>each part as a unit fraction of the whole. For<br>example, partition a shape into 4 parts with<br>equal area, and describe the area of each part<br>as 1/4 of the area of the shape.  | I can divide shapes<br>into parts with equal<br>areas and show those<br>areas as fractions.<br>3.G.2  |                                 |                               |
| Unit 7<br>Explore<br>Fractions | NUMBER & OPERATIONS FRACTIONS<br><u>CCSS.Math.Content.3.NF.A.1</u> Understand a<br>fraction 1/b as the quantity formed by 1 part<br>when a whole is partitioned into b equal parts;<br>understand a fraction a/b as the quantity<br>formed by a parts of size 1/b.   | I can show and<br>understand that<br>fractions are equal<br>parts of a whole.<br>3.NF.1   | Math Expressions<br>Common Core | Quick Quiz 1-2<br>Unit 7 Test |
|                                | <u>CCSS.Math.Content.3.NF.A.2</u> Understand a fraction as a number on the number line; represent fractions on a number line diagram.  | I can label fractions on<br>a number line because<br>I know the space<br>between any two  |                                 |                               |

| <ul> <li><u>CCSS.Math.Content.3.NF.A.2a</u> Represent a fraction 1/b on a number line diagram by defining the interval from 0 to 1 as the whole and partitioning it into b equal parts. Recognize that each part has size 1/b and that the endpoint of the part based at 0 locates the number 1/b on the number line.</li> <li><u>CCSS.Math.Content.3.NF.A.2b</u> Represent a fraction a/b on a number line diagram by marking off a lengths 1/b from 0. Recognize that the resulting interval has size a/b and that its endpoint locates the number a/b on the number a/b on the number line.</li> </ul> | numbers can be<br>thought of as a whole.<br>3.NF.2  |  |
|---|---|--|
| <u>CCSS.Math.Content.3.NF.A.3</u> Explain<br>equivalence of fractions in special cases, and<br>compare fractions by reasoning about their<br>size.  | I can explain in words<br>or pictures how two<br>fractions can<br>sometimes be equal.<br>3.NF.3 |  |
| CCSS.Math.Content.3.NF.A.3a Understand two fractions as equivalent (equal) if they are the same size, or the same point on a number line.   | I can compare<br>fractions by reasoning<br>about their size.<br>3.NF.3                          |  |
| CCSS.Math.Content.3.NF.A.3b Recognize and<br>generate simple equivalent fractions, e.g., 1/2<br>= 2/4, 4/6 = 2/3. Explain why the fractions are<br>equivalent, e.g., by using a visual fraction<br>model.   | I can show whole<br>numbers as fractions.<br>(3 = 3/1) 3.NF.3                                   |  |
| <u>CCSS.Math.Content.3.NF.A.3c</u> Express whole<br>numbers as fractions, and recognize fractions<br>that are equivalent to whole<br>numbers. <i>Examples: Express 3 in the form 3 =</i><br>3/1; recognize that 6/1 = 6; locate 4/4 and 1 at<br>the same point of a number line diagram.  | I can recognize<br>fractions that are<br>equal to one whole.<br>(1 = 4/4) 3.NF.3                |  |

| CCSS.Math.Content.3.NF.A.3d Compare two<br>fractions with the same numerator or the same<br>denominator by reasoning about their size.<br>Recognize that comparisons are valid only when<br>the two fractions refer to the same whole.<br>Record the results of comparisons with the<br>symbols >, =, or <, and justify the conclusions,<br>e.g., by using a visual fraction model |  |  |
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