



**Arizona State Kindergarten Math Standards Alignment to Starfall**

**Counting and Cardinality (CC)**

**K.CC.A** Know number names and the count sequence.

| Arizona Standards   | Starfall K Math Alignment   |
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| <b>K.CC.A.1</b> Count to 100 by ones and by tens.   | <b>Teacher's Guide <i>Read Me First</i> p. 6</b> - Hundredth Day Chart<br><b>Teacher's Guide <i>Read Me First</i> p. 9</b> - Backpack Bear's Math Games: Count to 100<br><b>Teacher's Guide p. 108</b> - Daily Routines: Number Line (daily)<br><b>Teacher's Guide p. 115</b> - Number Bundles<br><b>Teacher's Guide p. 274</b> - Count by Fives and Tens<br><b>100th Day of School Supplement pp. 2-4</b> - 100th Day of School Activities<br><i>Starfall.com</i> : Math: Numbers<br><i>Starfall.com</i> : Math: Add & Subtract: Place Value<br><i>Starfall.com</i> : Math: Kindergarten Mathematics Generators: Counting - Count to 100 |
| <b>K.CC.A.2</b> Count forward from a given number other than one, within the known sequence (e.g., "Starting at the number 5, count up to 11.")       | <b>Teacher's Guide p. 64</b> - Daily Routine: Number Line (daily)<br><b>Teacher's Guide p. 212</b> - Counting on from 10-20<br><b>Teacher's Guide p. 298</b> - Counting On<br><b>Teacher's Guide p. 320</b> - Counting On from a Given Number<br><b>Teacher's Guide p. 379</b> - Counting On Using the Number Line<br><b>Teacher's Guide p. 546</b> - Counting on from 10<br><b>Teacher's Guide p. 560</b> - Counting On<br><i>Starfall.com</i> : Math: Numbers: Train  |
| <b>K.CC.A.3</b> Write numbers from 0 to 20. Represent a number of objects with a written numeral 0 to 20 (with 0 representing account of no objects). | <b>Teacher's Guide pp. 199 - 248</b> - Unit 5: Troublesome Teens<br><b>Teacher's Guide pp. 246-247</b> - Introduce 20<br><b>Teacher's Guide p. 248</b> - Learning Centers: Computer<br><b>Teacher's Guide p. 248</b> - Learning Centers: A Walk in the Park<br><b>Teacher's Guide p.249</b> - Learning Centers: Dot-to-Dot (1-20)<br><b>Teacher's Guide pp. 546-547</b> - Numbers 10-20<br><b>Backpack Bear's Math Workbook 1</b> - Numbers 1 - 20  |

**K.CC.B** Count to tell the number of objects.

| Arizona Standards  | Starfall K Math Alignment   |
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| <b>K.CC.B.4</b><br>Understand the relationship between numbers and | <b>Teacher's Guide <i>Read Me First</i> p. 9</b> - Backpack Bear's Math |

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| <p>quantities; connect counting to cardinality.</p> <p><b>a.</b> When counting objects, say the number names in the standard order, pairing each object with one and only one number name and each number name with one and only one object (one to one correspondence).</p> <p><b>b.</b> Understand that the last number name said tells the number of objects counted. The number of objects is the same regardless of their arrangement or the order in which they were counted (cardinality).</p> <p><b>c.</b> Understand that each successive number name refers to a quantity that is one larger (hierarchical inclusion).</p> | <p>Games - "Race to 20"<br/> <b>Teacher's Guide p. 87</b> - Using Math Strategies<br/> <b>Teacher's Guide p.92</b> - Learning Centers: Ways to Represent Numbers<br/> <b>Teacher's Guide pp. 109-110</b> - One-to-One Correspondence and the Number Nine<br/> <b>Teacher's Guide pp.112-113</b> - The Number Zero<br/> <b>Teacher's Guide p. 116</b> - Formative Assessment<br/> <b>Teacher's Guide p. 282</b> - Seeing Number Patterns<br/> <i>Starfall.com:</i> Math: Numbers<br/> <i>Starfall.com:</i> Math Songs<br/> <i>Starfall.com:</i> Math: Numbers: Count Cookies</p> <p><b>Teacher's Guide pp. 87- 88</b> - The Number Seven<br/> <b>Teacher's Guide p.120</b> - Learning Centers: Number Activity Mats<br/> <b>Teacher's Guide pp. 318-319</b> - Number Representations 1-5<br/> <b>Teacher's Guide p. 323</b> - Match Dominoes to Number Cards<br/> <b>Teacher's Guide pp. 323-324</b> - Number Representations 6-10<br/> <i>Starfall.com:</i> Math: Numbers</p> <p><b>Teacher's Guide p. 40</b> - Daily Routines: Number Line (daily)<br/> <b>Teacher's Guide p. 44</b> - Daily Routines: Hundreds Chart (daily)<br/> <b>Teacher's Guide p.60</b> - Daily Routines: Place Value (daily)<br/> <b>Teacher's Guide p. 81</b> - Count to Five<br/> <b>Teacher's Guide pp. 84-85</b> - The Number Six<br/> <i>Starfall.com:</i> Math: Numbers<br/> <i>Starfall.com:</i> Math Songs</p> |
| <p><b>K.CC.B.5</b><br/> Count to answer questions about "How many?" when 20 or fewer objects are arranged in a line, a rectangular array, or a circle, or as many as 10 things in a scattered configuration; given a number from 1 to 20, count out that many objects.</p>   | <p><b>Teacher's Guide p. 60</b> - Daily Routines: Number Line - "How Many Days Have We Been in School?"<br/> <b>Teacher's Guide p. 277</b> - Learning Centers: Race to 20<br/> <b>Teacher's Guide pp. 354-356</b> - Arrays to 20<br/> <b>Teacher's Guide pp. 357-359</b> - Subitizing and Array Review<br/> <b>Teacher's Guide p. 360</b> - Learning Center: Arrays</p>   |

**K.CC.C Compare numbers.**

| Arizona Standards  | Starfall K Math Alignment  |
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| <p><b>K.CC.C.6</b><br/> Identify whether the number of objects in one group is greater than, less than, or equal to the number of objects in another group. (Include groups with up to ten objects.)</p> | <p><b>Teacher's Guide p. 155</b> - Evaluate Most, Least, and Same<br/> <b>Teacher's Guide pp. 156-158</b> - Greater Than and Less Than<br/> <b>Teacher's Guide pp. 187-188</b> - Using Ten Frames to Demonstrate More<br/> <b>Teacher's Guide p. 189</b> - Number Line Riddles<br/> <b>Teacher's Guide p. 288</b> - One Less<br/> <b>Teacher's Guide p. 342</b> - One More/One Less<br/> <b>Teacher's Guide p. 415</b> - Pocket Chart Game<br/> <b>Teacher's Guide p. 490</b> - Creating Equal Groups<br/> <b>Teacher's Guide p. 633</b> - How Many More or Less?<br/> <i>Starfall.com:</i> Math: Greater Than/Less Than</p> |
| <p><b>K.CC.C.7</b></p>   | <p><b>Teacher's Guide p. 128</b> - Less Than</p>   |

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| <p>Compare two numbers between 0 and 10 presented as written numerals.</p> | <p><b>Teacher’s Guide p. 132</b> - One More<br/> <b>Teacher’s Guide p. 187</b> - “Thumbs Up/Thumbs Down”<br/> <b>Teacher’s Guide p. 195</b> - Learning Centers: Banker, Customer - “High/Low”<br/> <b>Teacher’s Guide p. 265</b> - Number Sense<br/> <b>Teacher’s Guide p. 415</b> - Mystery Number Game<br/> <b>Starfall.com:</b> Math: Add &amp; Subtract: Base Ten Practice</p> |
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### Operations and Algebraic Thinking (OA)

**K.OA.A** Understand addition as putting together and adding to, and understand subtraction as taking apart and taking from.

| Arizona Standards   | Starfall K Math Alignment  |
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| <p><b>K.OA.A.1</b><br/> Represent addition and subtraction concretely.</p>  | <p><b>Teacher’s Guide p.112</b> - Story Problems<br/> <b>Teacher’s Guide p. 296</b> - Act It Out: Subtraction<br/> <b>Teacher’s Guide pp. 374-375</b> - Introduction to Addition<br/> <b>Teacher’s Guide p. 376</b> - Using Addition Strategies to Solve Equations<br/> <b>Teacher’s Guide pp. 379-380</b> - Using a Number Line to Add<br/> <b>Teacher’s Guide pp. 381-383</b> - Acting It Out<br/> <b>Teacher’s Guide p. 417</b> - Partner to Solve Subtraction Problems<br/> <b>Teacher’s Guide pp. 428-429</b> - Little Boy Blue Story Problems<br/> <b>Teacher’s Guide pp. 430-431</b> - Subtraction Story Problem<br/> <b>Teacher’s Guide pp. 457-458</b> -Subtraction<br/> <b>Starfall.com:</b> Math: Add &amp; Subtract: Math Helpers</p>  |
| <p><b>K.OA.A.2</b><br/> Solve addition and subtraction word problems and add and subtract within 10. See Table 1.</p>   | <p><b>Teacher’s Guide pp. 377-378</b> - Using Counters and Ten-Frames<br/> <b>Teacher’s Guide pp. 382-383</b> - Create an Addition Story; Drawing Pictures<br/> <b>Teacher’s Guide p. 383</b> - Solve Number Stories<br/> <b>Teacher’s Guide p. 396</b> - Story Maps<br/> <b>Teacher’s Guide pp. 418-419</b> - Subtraction Practice<br/> <b>Teacher’s Guide pp. 420-421</b> - Five Little Teddy Bear Subtraction<br/> <b>Teacher’s Guide p. 422</b> - Learning Centers: Add and Subtract<br/> <b>Starfall.com:</b> Math: Addition &amp; Subtraction: Addition Intro<br/> <b>Starfall.com:</b> Math:Addition &amp; Subtraction: Addition Practice<br/> <b>Starfall.com:</b> Math:Addition &amp; Subtraction: Addition Within 10<br/> <b>Starfall.com:</b> Math:Addition &amp; Subtraction: Subtraction Intro<br/> <b>Starfall.com:</b> Math:Addition &amp; Subtraction: Subtraction Within 10<br/> <b>Starfall.com:</b> Math:Add &amp; Subtract: Word Problems<br/> <b>Starfall.com:</b> Math: Addition &amp; Subtraction: Word Problems Add To: Change Unknown</p> |
| <p><b>K.OA.A.3</b><br/> Decompose numbers less than or equal to 10 into pairs in more than one way (e.g., using fingers, objects, symbols, tally marks, drawings, expressions).</p> | <p><b>Teacher’s Guide pp. 350</b> - Number Bonds to 10<br/> <b>Teacher’s Guide pp. 351-352</b> - Review Number Bonds<br/> <b>Teacher Guide p. 353</b> - Write Equations for Ten<br/> <b>Teacher’s Guide p. 377</b> - Using Counters and Ten-Frames</p>   |

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|  | <p><b>Teacher's Guide p. 384</b> - Learning Centers: Shake, Spill, and Add</p> <p><b>Teacher's Guide p. 400</b> - Create Addition Problems to 10</p> <p><b>Teacher's Guide pp. 452-453</b> - Review Addition</p> <p><b>Teacher's Guide pp. 468-469</b> - Creating Addition and Subtraction Equations</p> <p><b>Teacher's Guide pp. 620-621</b> -Composing and Decomposing Numbers 6-10</p> <p><b>Starfall.com:</b> Math: Add &amp; Subtract: Compose/Decompose Tens and Ones</p> <p><b>Starfall.com:</b> Math: Add &amp; Subtract: Math Helpers</p>  |
| <p><b>K.OA.A.4</b><br/>For any number from 1 to 9, find the number that makes 10 when added to the given number (e.g., using fingers, objects, symbols, tally marks, drawings, or equation).</p> | <p><b>Teacher's Guide p. 352</b> - Hanger Activity to 10</p> <p><b>Teacher's Guide pp. 374-375</b> - Introduction to Addition</p> <p><b>Teacher's Guide pp. 381-383</b> - Act It Out!</p> <p><b>Teacher's Guide pp. 453-454</b> - Ways to Write an Addition Equation/Writing Equations/Solving Addition Equations</p> <p><b>Teacher's Guide p. 468</b> - Plus and Minus Game</p> <p><b>Teacher's Guide p. 474</b> - Addition and Subtraction Journal Page</p> <p><b>Teacher's Guide p. 508</b> - Missing Number</p> <p><b>Starfall.com:</b> Math: Add &amp; Subtract: Math Helpers</p> <p><b>Starfall.com:</b> Math: Add &amp; Subtract: Make 10 Numbers</p> <p><b>Starfall.com:</b> Math: Make 10 Objects</p>   |
| <p><b>K.OA.A.5</b><br/>Fluently add and subtract within 5.</p>   | <p><b>Teacher's Guide p. 466</b> - Addition and Subtraction Equation Cards</p> <p><b>Teacher's Guide p. 469</b> - What's My Sign?</p> <p><b>Teacher's Guide p. 475</b> - Learning Centers: Flash Card Game</p> <p><b>Teacher's Guide p. 622</b> - Addition Game Day</p> <p><b>Teacher's Guide p. 623</b> - Subtraction Ball Toss</p> <p><b>Teacher's Guide p. 625</b> - Play "What's the Operation?"</p> <p><b>Teacher's Guide p.625</b> - What's the Operation?</p> <p><b>Teacher's Guide pp. 632-633</b> - Addition and Subtraction</p> <p><b>Starfall.com:</b> Math: Add &amp; Subtract: Addition Intro</p> <p><b>Starfall.com:</b> Math: Add &amp; Subtract: Addition Within 10</p> <p><b>Starfall.com:</b> Math: Add &amp; Subtract: Addition Practice</p> <p><b>Starfall.com:</b> Math: Add &amp; Subtract: Subtraction Intro</p> <p><b>Starfall.com:</b> Math: Add &amp; Subtract: Subtraction Within 10</p> <p><b>Starfall.com:</b> Math: Add &amp; Subtract: Subtraction Practice</p> |

### Number and Operations in Base Ten (NBT)

**K.NBT.A** Work with numbers 11 to 19 to gain foundations for place value.

| Arizona Standards  | Starfall K Math Alignment   |
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| <p><b>K.NBT.A.1</b><br/>Compose and decompose numbers from 11 to 19 into ten ones and additional ones by using objects, drawings and/or equations. Understand that these numbers are composed of ten ones and one, two, three, four, five, six, seven, eight, or nine ones (e.g., <math>18 = 10 + 8</math>).</p> | <p><b>Teacher's Guide pp. 546-547</b> - Numbers 10-20</p> <p><b>Teacher's Guide pp. 548-549</b> - Recognize Numbers and Sets of 10 to 20</p> <p><b>Teacher's Guide pp. 550-551</b> - Teens Practice</p> <p><b>Teacher's Guide pp. 552-553</b> - Place Value</p> <p><b>Teacher's Guide p. 555</b> - Learning Centers: Summative Assessment</p> <p><b>Starfall.com:</b> Math: Add &amp; Subtract: Place Value</p> |

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|  | <i>Starfall.com:</i> Math: Add & Subtract: Addition Within 20<br><i>Starfall.com:</i> Math: Add & Subtract: Subtraction: Within 20<br><i>Starfall.com:</i> Math: Add & Subtract: Compose/Decompose |
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**K.NBT.B** Use place value understanding and properties of operations to add and subtract.

| Arizona Standards  | Starfall K Math Alignment   |
|--|---|
| <b>K.NBT.B.2</b><br>Demonstrate understanding of addition and subtraction within 10 using place value. | <b>Teacher’s Guide p. 431</b> - “Backpack Bear Says”<br><b>Teacher’s Guide p. 432</b> - Subtraction Flash Cards<br><b>Teacher’s Guide p. 471</b> - Adding and Subtracting with Money<br><i>Starfall.com:</i> Math: Add & Subtract: Addition Within 10<br><i>Starfall.com:</i> Math: Add & Subtract: Place Value<br><i>Starfall.com:</i> Math: Add & Subtract: Subtraction Within 10 |

### Measurement and Data (MD)

**K.MD.A** Describe and compare measurable attributes.

| Arizona Standards  | Starfall K Math Alignment   |
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| <b>K.MD.A.1</b><br>Describe measurable attributes of a single object (e.g., length and weight).  | <b>Teacher’s Guide pp.126-127</b> - Measurement<br><b>Teacher’s Guide pp.132-133</b> - Sort by Attribute<br><b>Teacher’s Guide pp. 508-509</b> - Measure Distance<br><b>Teacher’s Guide pp. 510-511</b> - Classroom Size Comparison<br><b>Teacher’s Guide pp. 512-514</b> - Comparing Surface Area<br><i>Starfall.com:</i> Math: Geometry & Measurement: Measurement<br><i>Starfall.com:</i> Math: Geometry & Measurement: Weight |
| <b>K.MD.A.2</b><br>Directly compare two objects with a measurable attribute in common to see which object has “more of” or “less of” the attribute, and describe the difference (e.g., directly compare the length of 10 cubes to a pencil and describe one as longer or shorter). | <b>Teacher’s Guide pp. 28-29</b> - Introduce Measuring with Rectangles, Match Lengths, Compare Rectangles<br><b>Teacher’s Guide pp. 126 - 127</b> - Introduce Measurement<br><b>Teacher’s Guide p. 268</b> - Taller or Shorter?<br><b>Teacher’s Guide p. 284</b> - One Less<br><b>Teacher’s Guide p. 285</b> - One More<br><i>Starfall.com:</i> Math: Geometry & Measurement: Measurement   |

**K.MD.B** Classify objects and count the number of objects in each category.

| Arizona Standards   | Starfall K Math Alignment   |
|---|---|
| <b>K.MD.B.3</b> Classify objects into given categories; count the number in each category and sort the categories by count. (Note: limit category counts to be less than or equal to 10.) | <b>Teacher’s Guide pp. 36-37</b> - Explore Shapes<br><b>Teacher’s Guide pp. 41-42</b> - Introduce Octagon and Review 2D Shapes<br><b>Teacher’s Guide pp. 132-133</b> - Sort By Attribute<br><b>Teacher’s Guide p. 134</b> - Learning Centers: Sorting Objects |

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|  | <p><b>Teacher’s Guide pp. 288-289</b> - 3-D Shape Museum Day<br/> <b>Teacher’s Guide p. 290</b> - Sorting Shapes<br/> <b>Teacher’s Guide p. 624</b> - Pattern Using Coins<br/> <i>Starfall.com</i>: Math: Geometry &amp; Measurement: Button Sort</p> |
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**Geometry (G)**

**K.G.A** Identify and describe shapes.

| Arizona Standards   | Starfall K Math Alignment  |
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| <p><b>K.G.A.1</b><br/>Describe objects in the environment using names of shapes, and describe the relative positions of these objects using terms such as above, below, beside, in front of, behind, and next to.</p> | <p><b>Teacher’s Guide pp.128-129</b> - Ordinal Numbers<br/> <b>Teacher’s Guide pp. 152-153</b> - Introduce Positional Words<br/> <b>Teacher’s Guide p. 160</b> - Positional Words<br/> <b>Teacher’s Guide p. 623</b> - Position Words</p>  |
| <p><b>K.G.A.2</b><br/>Correctly name shapes regardless of their orientation or overall size (e.g., circle, triangle, square, rectangle, rhombus, trapezoid, hexagon, cube, cone, cylinder, sphere).</p>               | <p><b>Teacher’s Guide pp. 18-19</b> - Review One, Preview Two (Properties of a circle)<br/> <b>Teacher’s Guide pp. 21-22</b> - Preview Three (Properties of a Triangle)<br/> <b>Teacher’s Guide pp. 24-25</b> - Preview Four (Properties of a rectangle and square)<br/> <b>Teacher’s Guide p. 134</b> - Computer Center<br/> <b>Teacher’s Guide p. 150</b> - Identify shapes in the Environment<br/> <b>Teacher’s Guide pp. 265-266</b> - Shape Properties<br/> <i>Starfall.com</i>: Math - Geometry and Measurement: Triangles &amp; Make Shapes<br/> <i>Starfall.com</i>: Math - Geometry and Measurement: Puzzles<br/> <i>Starfall.com</i>: Math - Geometry and Measurement: 2D/3D Shapes</p>  |
| <p><b>K.G.A.3</b><br/>Identify shapes as two-dimensional (lying in a plane, flat) or three-dimensional (solid).</p>   | <p><b>Teacher’s Guide pp. 265-267</b> - Shape Properties<br/> <b>Teacher’s Guide pp. 268-269</b> - Introduce Cube<br/> <b>Teacher’s Guide pp. 271-273</b> - Introduce the Rectangular Prism<br/> <b>Teacher’s Guide pp. 274-275</b> - Introduce the Cone<br/> <b>Teacher’s Guide pp. 282-283</b> - Introduce the Cylinder<br/> <b>Teacher’s Guide p. 284</b> - Introduce the Sphere<br/> <b>Teacher’s Guide pp. 286-287</b> - Introduce the Square Pyramid<br/> <b>Teacher’s Guide p. 302</b> - Sorting 2D and 3D Shapes<br/> <i>Starfall.com</i>: Math: Geometry and Measurement: 2D/3D Sort<br/> <i>Starfall.com</i>: Math: Geometry and Measurement: 2-D/3D Shapes<br/> <i>Starfall.com</i>: Math: Geometry and Measurement: 3D Space</p> |

**K.G.B** Analyze, compare, create, and compose shapes.

| Arizona Standards | Starfall K Math Alignment                             |
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| <b>K.G.B.4</b>    | <b>Teacher’s Guide pp. 265-266</b> - Shape Properties |

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| <p>Analyze and compare two-dimensional and three-dimensional shapes, in different sizes and orientations, using informal language to describe their similarities, differences, parts (e.g., number of sides and vertices/corners), and other attributes (e.g., having sides of equal length).</p> | <p><b>Teacher’s Guide p. 269</b> - Introduce the Math Net<br/> <b>Teacher’s Guide p. 272</b>- Introduce the Rectangular Prism Math Net<br/> <b>Teacher’s Guide p. 275</b> - Introduce the Cone Math Net<br/> <b>Teacher’s Guide p. 282</b> - Introduce the Cylinder Math Net<br/> <b>Teacher’s Guide p. 283</b> - Properties of a Cylinder<br/> <b>Teacher’s Guide p. 285</b> - Compare Circles and Spheres<br/> <b>Teacher’s Guide p. 287</b> - Introduce the Square Pyramid Math Net<br/> <b>Teacher’s Guide p. 289</b> - Sort Items Into Groups<br/> <b>Teacher’s Guide p. 301</b> - Graphing 3-D Shapes<br/> <b>Teacher’s Guide p. 303</b> - Distinguishing 2D and 3D Shapes<br/> <b>Teacher’s Guide p. 296-297</b> -Backpack Bear’s Treasure Hunt</p> |
| <p><b>K.G.B.5</b><br/> Model shapes in the world by building shapes from components (e.g., use sticks and clay balls) and drawing shapes</p>  | <p><b>Teacher’s Guide p. 151</b> - Draw Shapes<br/> <b>Teacher’s Guide p. 267</b> - Draw Shapes with Shaving Cream<br/> <b>Teacher’s Guide p. 276</b> - Learning Centers: Play Dough Shape Town<br/> <b>Teacher’s Guide p. 297</b> - Draw Shapes<br/> <b>Teacher’s Guide p. 304</b> - Learning Centers:Play Dough 3-D Shapes<br/> <b>Teacher’s Guide p. 304</b> - Learning Centers: Constructing 3-D Shapes</p>  |
| <p><b>K.G.B.6</b><br/> Use simple shapes to form composite shapes. For example, “Can you join these two triangles with full sides touching to make a rectangle?”</p>  | <p><b>Teacher’s Guide p. 134</b> - Computer Center<br/> <b>Teacher’s Guide pp. 265-266</b> - Shape Properties<br/> <b>Teacher’s Guide p. 273</b> - Cubes and Rectangular Prisms<br/> <b>Starfall.com:</b> Math: Geometry and Measurement: Triangles &amp; Make Shapes<br/> <b>Starfall.com:</b> Math: Geometry and Measurement: Puzzles</p>  |

\*The standards in this document were copied directly from the *Arizona Department of Education High Academic Standards for Students*.

### Arizona Mathematics Standards Kindergarten

**Table 1.** Common Addition and Subtraction Problem Types/Situations.<sup>1</sup>

|        | Result Unknown   | Change Unknown   | Start Unknown   |
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| Add to | <p><b>Teacher’s Guide</b></p> <p>Magic Math Moment (p.65)</p> <p>Magic Math Moment (p.112)</p> <p>Magic Math Moment (p.150)</p> <p>Magic Math Moment (p. 189)</p> <p>Math Bags and Coins (P. 192)</p> <p>Magic Math Moment (p.215)</p> | <p><b>Teacher’s Guide</b></p> <p>Use Coins to Solve Problems(p. 192)</p> <p>Formative Assessment: Story Problem #2 (p. 193)</p> <p>Place Value and Equations with Ten-Frames (p.213)</p> <p>Creating Numbers Using Ten-Frames (p. 214)</p> | <p><b>Starfall.com Website:</b><br/> <b>Add &amp; Subtract</b><br/> Add &amp; Subtract Strategies</p> |

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|  | <p>Number Riddles/Introduce 19: Number Riddles (More/Less) (p.244)</p> <p>Domino Math (p. 334)</p> <p>Sorting Dominoes (p. 335)</p> <p>Summative Assessment (p. 345)</p> <p>Introduce Hanger Activities to 5 (p. 351 - 352)</p> <p>Learning Centers: Equation Flashcards (p. 360)</p> <p>Learning Centers: Summative Assessment (p. 360)</p> <p>Magic Math Moment: Introduce "Operation" (p. 374) Using Addition Strategies (p.375)</p> <p>Using Addition Strategies to Solve Equations (p. 376)</p> <p>Using the Number Line to Add (p. 379)</p> <p>Formative Assessment: Use the Floor Number Line to Add (p. 380)</p> <p>Magic Math Moment: Addition Equation Cards (Counting On) (p. 381)</p> <p>Acting Out Story Problems (pp. 381 - 382)</p> <p>Drawing Pictures (p. 383)</p> <p>Learning Centers: Shake, Spill, and Add (p. 384)</p> <p>Learning Centers: "What's Your Answer?" (p. 384)</p> <p>Missing Numbers: Building Addition Number Stories (p. 391)</p> | <p>Summative Assessment: Represent Numbers (p. 235)</p> <p>Magic Math Moment: One More (p. 286)</p> <p>Formative Assessment: Complete Number Sentences (p. 338)</p> <p>"Missing Number Game" (p.350)</p> <p>Solving for X (p. 392)</p> <p>Formative Assessment :What Number is Missing? (p 392)</p> <p>Create and Solve a Number Sequence (p. 396)</p> <p>Going Shopping (p. 398)</p> <p>Formative Assessment: "Let's GO Shopping" Worksheet (p. 398)</p> <p>Magic Math Moment: Missing Number (p.508)</p> <p>Count on Using Connect Cubes (p. 546)</p> <p>Count on Using Place Value Sticks and Bundles (p.546 -547)</p> <p><b>Starfall.com Website:</b><br/> <b>Add &amp; Subtract</b></p> <ul style="list-style-type: none"> <li>● Operators &amp; Operands: 1 2 ?</li> <li>● Add &amp; Subtract Strategies</li> <li>● Word Problems: Add To/Change Unknown</li> <li>● Unknown Addend</li> <li>● Base Ten Practice</li> </ul> <p><b>Math Workbook 1</b></p> <ul style="list-style-type: none"> <li>● Worksheet 10 (p. 15)</li> </ul> |  |
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|  | <p>Magic Math Moment: Flash Card Game (p. 393)</p> <p>Strategy Demonstration (p. 393)</p> <p>Using Strategies to Solve Story Problems (p.394)</p> <p>Create and Solve a Number Sequence (p. 396)</p> <p>Formative Assessment: Story Maps (p. 396)</p> <p>Addition and Subtraction Problems : Listen for Addition and Subtraction Clues (p. 473-474)</p> <p>Formative Assessment: Calendar Questions (p. 561)</p> <p>Magic Math Moment: (More Than/Less Than Riddles (p. 604)</p> <p>Play "What's the Operation?" (p.625)</p> <p><b>Starfall.com Website:</b><br/> <b>Add &amp; Subtract</b></p> <ul style="list-style-type: none"> <li>● Addition with 10</li> <li>● Addition within 20</li> <li>● Addition Practice</li> <li>● Addition Intro</li> <li>● Word Problems: Add To/Result Unknown</li> <li>● Two Digit Addition</li> <li>● Add &amp; Subtract Strategies</li> <li>● Base Ten Practice</li> </ul> <p><b>Math Workbook 2</b></p> <ul style="list-style-type: none"> <li>● Domino Math (p. 5)</li> <li>● Number Combinations for 8 and 9 (p. 7)</li> <li>● Addition: Read It, Draw It, Solve It (p. 10)</li> <li>● Addition Equations (p. 11)</li> </ul> | <ul style="list-style-type: none"> <li>● Worksheet 11 (p. 25)</li> <li>● Worksheet 12 (p. 27)</li> <li>● Worksheet 13 (p. 29)</li> <li>● Worksheet 14 (p. 31)</li> <li>● Worksheet 15 (p.33)</li> <li>● Worksheet 16 (p. 35)</li> <li>● Worksheet 17 (p. 37)</li> <li>● Worksheet 18 (p. 39)</li> <li>● Worksheet 19 (p. 41)</li> <li>● Worksheet 20 (p. 43)</li> </ul> <p><b>Math Workbook 2</b></p> <ul style="list-style-type: none"> <li>● Number Combinations for 6 and 7 (p. 6)</li> <li>● Solve for X (p. 12)</li> </ul> |  |
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|           | <ul style="list-style-type: none"> <li>● Little Bo Peep - Addition (p. 13)</li> <li>● Mary Had a Little Lamb - Addition (p. 14)</li> <li>● Addition Equations (p. 20)</li> <li>● Addition: Color by Equation (p.21)</li> <li>● Addition and Subtraction Within 5 (p. 24)</li> <li>● Addition and Subtraction with Money (p. 27)</li> <li>● Addition and Subtraction Journal Page (p. 28)</li> <li>● What's the Operation (p. 45)</li> <li>● Let's Add; Let's Subtract; Let's Add AND Subtract (p. 46)</li> </ul>  |   |   |
| Take from | <p style="text-align: center;"><b>Teacher's Guide</b></p> <p>Count Down from Five (p. 47)</p> <p>Magic Math Moment : Story Problem (p.112)</p> <p>Counting Backwards to Zero (p. 113)</p> <p>Magic Moment: Less Than (p. 128)</p> <p>Magic Moment: One Less (p. 130)</p> <p>Magic Math Moment: Number Line Riddles (p. 189)</p> <p>Magic Math Moment : Act It Out:Subtraction (p. 296)</p> <p>Partner to Solve Subtraction Problems (p. 417)</p> <p>Teacher's Guide p. 418 Counting Backward</p> <p>Teacher's Guide pp. 418-419 Subtraction Practice:</p> | <p style="text-align: center;"><b>Teacher's Guide</b></p> <p>"Little Boy Blue" Story Problems (p. 428-429)</p> <p style="text-align: center;"><b>Starfall.com Website:<br/>Add &amp; Subtract</b></p> <ul style="list-style-type: none"> <li>● Add &amp; Subtract Strategies</li> <li>● Word Problems : Take From/Change Unknown</li> </ul> | <p style="text-align: center;"><b>Starfall.com Website:<br/>Add &amp; Subtract</b></p> <ul style="list-style-type: none"> <li>● Add &amp; Subtract Strategies</li> <li>● Word Problems : Take From/Start Unknown</li> </ul> |

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|  | <p>Drawing Pictures Strategy</p> <p>Teacher’s Guide p. 421<br/>"Five Little Teddy Bears"<br/>Subtraction Story</p> <p>Teacher’s Guide p. 422<br/>High/Low Card Game</p> <p>Teacher’s Guide pp.428-429<br/>"Little Boy Blue" Story<br/>Problems</p> <p>Teacher’s Guide p. 430<br/>Number Line Subtraction</p> <p>Teacher’s Guide p. 430<br/>Acting Out Story Problems</p> <p>Formative Assessment (p.<br/>431)</p> <p>Let’s Go Shopping (p. 432 -<br/>433)</p> <p>Using the Number Line to<br/>Subtract<br/>(p. 434)</p> <p>Formative Assessment: Train<br/>Subtraction (p. 435 -436)</p> <p>Review Subtraction Strategies<br/>(p. 457)</p> <p>Act Out Subtraction (p. 457)</p> <p>Draw to Solve a Problem (P.<br/>458)</p> <p>Formative Assessment:<br/>Weather Subtraction (p. 458)</p> <p>"Disappearing Train Cube<br/>Subtraction" Game (p. 467)</p> <p>Adding and Subtracting with<br/>Money (Pp 471)</p> <p>Addition and Subtraction Story<br/>Problems: Listen for Addition<br/>and Subtraction Clues (p.<br/>473-474)</p> <p>Magic Math Moment: More</p> |  |  |
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|  | <p>Than/Less Than Riddles (p. 604)</p> <p>Subtraction Ball Toss (p. 623)</p> <p>Play "What's the Operation?" (p. 625)</p> <p>Addition and Subtraction (pp. 632-633)</p> <p><b>Starfall.com Website:</b><br/> <b>Add &amp; Subtract</b></p> <ul style="list-style-type: none"> <li>• Word Problems : Take From/Result Unknown</li> <li>• Subtraction Intro</li> <li>• Subtraction within 10</li> <li>• Subtraction Practice</li> <li>• Subtraction within 20</li> </ul> <p><b>Math Workbook 2</b></p> <ul style="list-style-type: none"> <li>• Subtraction: Read It; Draw It; Solve It (p. 15)</li> <li>• 5 Little Bears - Subtraction (p. 16)</li> <li>• Little Boy Blue - Subtraction (p.18)</li> <li>• Weather Subtraction (p. 22)</li> <li>• Subtraction: Color by Equation (p. 23)</li> <li>• Addition and Subtraction Within 5 (p. 24)</li> <li>• Addition and Subtraction with Money (p. 27)</li> <li>• What's the Operation (p. 45)</li> </ul> |  |   |
|  | Total Unknown   | Addend Unknown   | Both Addends Unknown <sup>2</sup>   |
| Put Together / Take Apart <sup>3</sup> | <p><b>Teacher's Guide</b></p> <p>Magic Math Moment (p.65)</p> <p>Magic Math Moment (p.112)</p> <p>Magic Math Moment (p.150)</p> <p>Magic Math Moment (p. 189)</p> <p>Magic Math Moment (p. 192)</p>   | <p><b>Teacher's Guide</b></p> <p>Use Coins to Solve Problems(p. 192)</p> <p>Demonstrate Story Problem #1 (p. 193)</p> <p>Place Value and Equations with Ten-Frames (p.213)</p> | <p><b>Teacher's Guide</b></p> <p>Directionality of Equations: (p. 322)</p> <p>Introduce Number Combinations of 6 (pp. 336-337)</p> <p>Representations of 7 (p. 337)</p> |

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|  | <p>Magic Math Moment (p.215)</p> <p>Number Riddles/Introduce 19: Number Riddles (More,Less) (p.244)</p> <p>Domino Math (p. 334)</p> <p>Sorting Dominoes (P. 335)</p> <p>Summative Assessment (p. 345)</p> <p>Introduce Hanger Activities to 5 (p. 351 - 352)</p> <p>Learning Centers: Equation Flashcards (p. 360)</p> <p>Learning Centers: Summative Assessment (p. 360)</p> <p>Magic Math Moment : Introduce "Operation" (p. 374)</p> <p>Using Addition Strategies (p.375)</p> <p>Using Addition Strategies to Solve Equations (p. 376)</p> <p>Using the Number Line to Add (p. 379)</p> <p>Formative Assessment: Use the Floor Number Line to Add (p. 380)</p> <p>Magic Math Moment: Addition Equation Cards (Counting On) (p. 381)</p> <p>Acting Out Story Problems (pp. 381-382)</p> <p>Drawing Pictures (p. 383)</p> <p>Learning Centers: Shake, Spill, and Add (p. 384)</p> <p>"What's Your Answer?" (p. 384)</p> <p>Building Addition Number</p> | <p>Complete Number Sentences (p. 338)</p> <p>Missing Number Game (p. 350)</p> <p>Solving for X. (p.392)</p> <p>Use a Story Map (p. 395)</p> <p>Create and Solve a Number Sequence (p. 396)</p> <p>Formative Assessment: " Let's Go Shopping" Worksheet (p. 398)</p> <p>"Little Boy Blue" Subtraction (p.429)</p> <p>Magic Math Moment: issing Number (p. 508)</p> <p>Count On Using Place Value Sticks and Bundles (p. 546-547)</p> <p>Magic Math Moment: How MAny More or Less? (p.632)</p> <p><b>Starfall.com Website:</b><br/> <b>Add &amp; Subtract</b></p> <ul style="list-style-type: none"> <li>• Word Problems: Put Together/Take Apart-Addend Unknown</li> </ul> | <p>Combinations of 8 (p. 341)</p> <p>Create Combinations of 9 (p. 343)</p> <p>Create a 10-Chain (p. 350)</p> <p>Introduce Hanger Activity to 5 (p. 351-352)</p> <p>Hanger Activity to 10 (p. 352)</p> <p>Write Equations for Ten (p. 353)</p> <p>Create Arrays (p. 359)</p> <p>Summative Assessment: Hanger Activity (p. 360)</p> <p>Use Counters and Ten-Frame Strategies (pp. 377-378)</p> <p>Different Ways to Make 5 (p. 378)</p> <p>Summative Assessment: Create Addition Problems to 10: (p. 400)</p> <p>Review Strategies for Adding (p.455)</p> <p>Ways to Show Numbers (p. 562)</p> <p><b>Starfall.com Website:</b><br/> <b>Add &amp; Subtract</b></p> <ul style="list-style-type: none"> <li>• Make 10 Objects</li> <li>• My Coin Book 1</li> <li>• My Coin Book 2</li> </ul> <p><b>Math Workbook 2</b><br/> Shake, Spill, and Add to 5 (p. 9)</p> |
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|  | <p>Stories (p. 391)</p> <p>Magic Math Moment: Flash Card Game (p. 393)</p> <p>Strategy Demonstration (p. 393)</p> <p>Using Strategies to Solve Story Problems (p.394)</p> <p>Create and Solve a Number Sequence (p. 396)</p> <p>Formative Assessment: Story Maps (p. 396)</p> <p>Addition and Subtraction Problems : Listen for Addition and Subtraction Clues (pp. 473-474)</p> <p>Formative Assessment Calendar Questions (p. 561)</p> <p>Magic Math Moment: (More Than/Less Than Riddles (p.604)</p> <p>Play "What's the Operation?" (p.625)</p> <p><b>Starfall.com Website:</b></p> <p><b>Add &amp; Subtract</b></p> <ul style="list-style-type: none"> <li>● Word Problems: Put Together/Take Apart- Total Unknown</li> <li>● Addition with 10</li> <li>● Addition within 20</li> <li>● Addition Practice</li> <li>● Addition Intro</li> <li>● Two Digit Addition</li> <li>● Add &amp; Subtract Strategies</li> <li>● Base Ten Practice</li> </ul> <p><b>Math Workbook 2</b></p> <ul style="list-style-type: none"> <li>● Domino Math (p. 5)</li> <li>● Addition and Subtraction with Money (p. 27)</li> <li>● Addition and Subtraction Journal Page (p. 28)</li> <li>● Let's Add; Let's</li> </ul> |  |  |
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|         | Subtract; Let's Add<br>AND Subtract (p. 46)  |                |                 |
|         | Difference Unknown   | Bigger Unknown | Smaller Unknown |
| Compare | <p><b>Teacher's Guide</b></p> <p>Magic Math Moment: Using Math Strategies (p. 87)</p> <p>Greater Than and Less Than (p. 156 - 157)</p> <p>Magic Math Moment: "Thumbs-Up, Thumbs-Down" (p. 186)</p> <p>Demonstrate More and Less (p.186)</p> <p>Using Ten-Frames to Demonstrate More (p. 187)</p> <p>Formative Assessment: Partner Share (p. 188)<br/>Equivalent Coins (p. 190)</p> <p>Formative Assessment: Which is Worth More? (p. 191)</p> <p>Summative Assessment: Banker, Customer (p. 195)</p> |                |                 |

<sup>1</sup> Adapted from Box 2-4 of Mathematics Learning in Early Childhood, National Research Council (2009, pp. 32, 33).  
<sup>2</sup> These take apart situations can be used to show all the decompositions of a given number. The associated equations, which have the total on the left of the equal sign, help children understand that the = sign does not always mean makes or results in but always does mean is the same quantity as.  
<sup>3</sup> Either addend can be unknown, so there are three variations of these problem situations. Both Addends Unknown is a productive extension of this basic situation, especially for small numbers less than or equal to 10.

### Standards for Mathematical Practices

The following Mathematical Practices were an underlying basis in the creation of mathematics lessons and activities included in the Starfall Kindergarten Math Curriculum. This chart includes several examples of lessons that specifically address each Mathematical Practice.

| Mathematical Practices  | Starfall K Math Alignment  |
|---|--|
| <b>K.MP.1</b> Make sense of problems and persevere in solving them. | <p><b>Teacher's Guide pp. 334-335</b> - Addition to Five</p> <p><b>Teacher's Guide p. 350</b> - Number Bonds of Ten</p> <p><b>Teacher's Guide pp. 354-356</b> - Arrays Up to 20</p> <p><b>Teacher's Guide pp. 374-375</b> - Introduction to Addition</p> |

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|  | <p><b>Teacher’s Guide pp. 377-378</b> - Using Counters and Ten Frames<br/> <b>Teacher’s Guide pp. 379-380</b> - Using a Number Line to Add<br/> <b>Teacher’s Guide pp. 381-382</b> - Acting it Out<br/> <b>Teacher’s Guide pp. 391-392</b> - Missing Numbers<br/> <b>Teacher’s Guide pp. 393-394</b> - Strategies to Solve Story Problems<br/> <b>Teacher’s Guide pp. 395-396</b> - Story Maps<br/> <b>Teacher’s Guide pp. 416-417</b> - Introduce Subtraction<br/> <b>Teacher’s Guide pp. 418-419</b> - Subtraction Practice<br/> <b>Teacher’s Guide pp. 420-421</b> - “Five Little Teddy Bears” Subtraction<br/> <b>Teacher’s Guide pp. 428-429</b> - “Little Boy Blue” Story Problems<br/> <b>Teacher’s Guide pp. 430-431</b> - Subtraction Story Problems<br/> <b>Teacher’s Guide pp. 434-436</b> - Using a Number Line to Subtract<br/> <b>Teacher’s Guide pp. 455-456</b> - My Answer Is . . .<br/> <b>Teacher’s Guide p. 459</b> - Subtraction Equations<br/> <b>Teacher’s Guide pp. 466-467</b> - Review Addition and Subtraction Facts<br/> <b>Teacher’s Guide pp. 430-431</b> - Subtraction Story Problems<br/> <b>Teacher’s Guide pp. 468-469</b> - Creating Addition and Subtraction Equations</p>   |
| <p><b>K.MP.2</b> Reason abstractly and quantitatively.</p> | <p><b>Teacher’s Guide p. 375</b> - Using Addition Strategies<br/> <b>Teacher’s Guide p. 376</b> - Using Addition Strategies to Solve Equations<br/> <b>Teacher’s Guide pp. 381-383</b> - Acting It Out<br/> <b>Teacher’s Guide p. 391</b> - Building Addition Number Stories<br/> <b>Teacher’s Guide p. 392</b> - Solving for X<br/> <b>Teacher’s Guide pp. 393-394</b> - Strategies to Solve Story Problems<br/> <b>Teacher’s Guide pp. 395-396</b> - Story Maps<br/> <b>Teacher’s Guide p. 417</b> - Partner to Solve Subtraction Problems<br/> <b>Teacher’s Guide pp. 418-419</b> - Subtraction Practice<br/> <b>Teacher’s Guide p. 420-421</b> - “Five Little Teddy Bears” Subtraction<br/> <b>Teacher’s Guide p. 423</b> - Learning Centers: Summative Assessment: “Five Teddy Bears”<br/> <b>Teacher’s Guide pp. 428-429</b> - “Little Boy Blue” Story Problems<br/> <b>Teacher’s Guide pp. 430-431</b> - Subtraction Story Problems<br/> <b>Teacher’s Guide pp. 452-454</b> - Review Addition<br/> <b>Teacher’s Guide pp. 455-456</b> - My Answer Is . . .<br/> <b>Teacher’s Guide pp. 457-458</b> - Subtraction<br/> <b>Teacher’s Guide p. 459</b> - Subtraction Equations<br/> <b>Teacher’s Guide p. 466</b> - “Build a Tower Addition” Game<br/> <b>Teacher’s Guide p. 467</b> - “Disappearing Train Cube Subtraction” Game<br/> <b>Teacher’s Guide pp. 468-469</b> - Creating Addition and Subtraction Equations<br/> <b>Teacher’s Guide pp. 473-474</b> - Addition and Subtraction Story Problems<br/> <b>Teacher’s Guide p. 491</b> - Use Pictures to Solve Problems<br/> <b>Teacher’s Guide p. 492</b> - Draw Pictures to Solve Problems<br/> <b>Teacher’s Guide p. 496</b> - Measure and Compare Lengths<br/> <b>Teacher’s Guide p. 497</b> - Measure Using Craft Sticks<br/> <b>Teacher’s Guide p. 497</b> - Measure Using Cubes</p> |



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|   | <p><b>Teacher's Guide p. 498</b> - Length of Names<br/> <b>Teacher's Guide pp. 499-500</b> - Shortest to Tallest<br/> <b>Teacher's Guide p. 500</b> - Measure Objects<br/> <b>Teacher's Guide p. 502</b> - Learning Centers: Measure the Objects</p>   |
| <p><b>K.MP.3</b> Construct viable arguments and critique the reasoning of others.</p> | <p><b>Teacher's Guide p. 374</b> - Introduce "Operation"<br/> <b>Teacher's Guide p. 375</b> - Using Addition Strategies<br/> <b>Teacher's Guide p. 376</b> - Using Addition Strategies to Solve Equations<br/> <b>Teacher's Guide pp. 377-378</b> - Use Counters and Ten-Frame Strategies<br/> <b>Teacher's Guide pp. 379-380</b> - Using a Number Line to Add<br/> <b>Teacher's Guide p. 381</b> - Addition Equation Cards (Counting On)<br/> <b>Teacher's Guide pp. 381-382</b> - Acting It Out<br/> <b>Teacher's Guide p. 383</b> - Drawing Pictures<br/> <b>Teacher's Guide p. 384</b> - Solve Number Stories<br/> <b>Teacher's Guide p. 391</b> - "Five Little Bees"<br/> <b>Teacher's Guide p. 391</b> - Building Addition Number Stories<br/> <b>Teacher's Guide p. 392</b> - Solving For X<br/> <b>Teacher's Guide p. 392</b> - What Number is Missing?<br/> <b>Teacher's Guide pp. 393-394</b> - Strategies to Solve Story Problems<br/> <b>Teacher's Guide pp. 395-396</b> - Story Maps<br/> <b>Teacher's Guide pp. 397-398</b> - Addition With Coins<br/> <b>Teacher's Guide p. 400</b> - Learning Centers: Summative Assessment: Create Addition Problems to 10<br/> <b>Teacher's Guide p. 414-415</b> - Greater Than/Less Than Game Day<br/> <b>Teacher's Guide p. 416</b> - Subtraction as an Operation<br/> <b>Teacher's Guide p. 417</b> - Compare Addition and Subtraction Strategies<br/> <b>Teacher's Guide p. 417</b> - Partner to Solve Subtraction Problems<br/> <b>Teacher's Guide pp. 418-419</b> - Drawing Pictures Strategy<br/> <b>Teacher's Guide p. 419</b> - Read It, Draw It, Solve It Practice<br/> <b>Teacher's Guide p. 419</b> - Represent Subtraction<br/> <b>Teacher's Guide pp. 420-421</b> - "Five Little Teddy Bears" Subtraction<br/> <b>Teacher's Guide pp. 428-429</b> - "Little Boy Blue" Story Problems<br/> <b>Teacher's Guide pp. 430-431</b> - Subtraction Story Problems<br/> <b>Teacher's Guide pp. 432-433</b> - Subtraction and Money<br/> <b>Teacher's Guide pp. 434-436</b> - Using a Number Line to Subtract<br/> <b>Teacher's Guide pp. 452-454</b> - Review Addition<br/> <b>Teacher's Guide pp. 455-456</b> - My Answer Is...<br/> <b>Teacher's Guide pp. 457-458</b> - Subtraction<br/> <b>Teacher's Guide p. 459</b> - Subtraction Equations<br/> <b>Teacher's Guide p. 461</b> - Learning Centers: Summative Assessment: Adding and Subtracting Within 5<br/> <b>Teacher's Guide p. 468</b> - "Plus and Minus" Game<br/> <b>Teacher's Guide pp. 468-469</b> - Creating Addition and Subtraction Equations<br/> <b>Teacher's Guide p. 472</b> - Adding and Subtracting using Money<br/> <b>Teacher's Guide pp. 473-474</b> - Addition and Subtraction Story Problems</p> |

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| <p><b>K.MP.4</b> Model with mathematics.</p>              | <p><b>Teacher’s Guide p. 375</b> - Using Addition Strategies<br/> <b>Teacher’s Guide p. 376</b> - Using Addition Strategies to Solve Equations<br/> <b>Teacher’s Guide pp. 381-383</b> - Acting It Out<br/> <b>Teacher’s Guide p. 391</b> - Building Addition Number Stories<br/> <b>Teacher’s Guide p. 392</b> - Solving for X<br/> <b>Teacher’s Guide pp. 393-394</b> - Strategies to Solve Story Problems<br/> <b>Teacher’s Guide pp. 395-396</b> - Story Maps<br/> <b>Teacher’s Guide p. 417</b> - Partner to Solve Subtraction Problems<br/> <b>Teacher’s Guide pp. 418-419</b> - Subtraction Practice<br/> <b>Teacher’s Guide pp. 420-421</b> - “Five Little Teddy Bears” Subtraction<br/> <b>Teacher’s Guide p. 423</b> - Learning Centers: Summative Assessment: “Five Teddy Bears”<br/> <b>Teacher’s Guide pp. 428-429</b> - “Little Boy Blue” Story Problems<br/> <b>Teacher’s Guide pp. 430-431</b> - Subtraction Story Problems<br/> <b>Teacher’s Guide pp. 452-454</b> - Review Addition<br/> <b>Teacher’s Guide pp. 455-456</b> - My Answer Is . . .<br/> <b>Teacher’s Guide pp. 457-458</b> - Subtraction<br/> <b>Teacher’s Guide p. 459</b> - Subtraction Equations<br/> <b>Teacher’s Guide p. 466</b> - “Build a Tower Addition” Game<br/> <b>Teacher’s Guide p. 467</b> - “Disappearing Train Cube Subtraction” Game<br/> <b>Teacher’s Guide pp. 468-469</b> - Creating Addition and Subtraction Equations<br/> <b>Teacher’s Guide pp. 473-474</b> - Addition and Subtraction Story Problems<br/> <b>Teacher’s Guide p. 491</b> - Use Pictures to Solve Problems<br/> <b>Teacher’s Guide p. 492</b> - Draw Pictures to Solve Problems</p> |
| <p><b>K.MP.5</b> Use appropriate tools strategically.</p> | <p><b>Teacher’s Guide</b> - Daily Routines (Daily)<br/> <b>Teacher’s Guide pp. 15-16</b> - Introduce Daily Routines and Preview One<br/> <b>Teacher’s Guide p. 68</b> - Math Bag Objects<br/> <b>Teacher’s Guide p. 84</b> - Introduce the Number Six<br/> <b>Teacher’s Guide p. 120</b> - Learning Centers: Number Activity Mats<br/> <b>Teacher’s Guide p. 134</b> - Learning Centers: Sorting Objects<br/> <b>Teacher’s Guide p. 156</b> - Greater Than and Less Than<br/> <b>Teacher’s Guide pp. 172-173</b> - Introduce the Dime<br/> <b>Teacher’s Guide pp. 184-185</b> - Ten-Frames<br/> <b>Teacher’s Guide p. 235</b> - Learning Centers: Summative Assessment: Represent Numbers<br/> <b>Teacher’s Guide p. 246</b> - Introduce 20<br/> <b>Teacher’s Guide p. 265</b> - Shape Properties<br/> <b>Teacher’s Guide pp. 284-285</b> - Introduce the Sphere<br/> <b>Teacher’s Guide p. 304</b> - Learning Centers: Constructing 3-D Shapes<br/> <b>Teacher’s Guide pp. 325-326</b> - Review Money (Penny, Nickel, Dime)<br/> <b>Teacher’s Guide pp. 336-337</b> - Number Combinations of 6 and 7<br/> <b>Teacher’s Guide pp. 350-351</b> - Number Bonds of 10<br/> <b>Teacher’s Guide pp. 378-379</b> - Using Counters and</p>   |

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|   | <p>Ten-Frames<br/> <b>Teacher’s Guide pp. 393-394</b> - Strategies to Solve Story Problems<br/> <b>Teacher’s Guide p. 422</b> - Learning Centers: “Add and Subtract”<br/> <b>Teacher’s Guide pp. 430-431</b> - Subtraction Story Problems<br/> <b>Teacher’s Guide pp. 455-456</b> - My Answer Is...<br/> <b>Teacher’s Guide pp. 470-471</b> - Plus and Minus<br/> <b>Teacher’s Guide pp. 496-497</b> - Height and Length<br/> <b>Teacher’s Guide pp. 508-509</b> - Measure Distance<br/> <b>Teacher’s Guide pp. 524-525</b> - Weighing Objects<br/> <b>Teacher’s Guide pp. 550-551</b> - Teens Practice<br/> <b>Teacher’s Guide p. 567</b> - Learning Centers: “Count to 50”<br/> Number Grid Game<br/> <b>Teacher’s Guide p. 606</b> - Learning Centers: Capacity</p>   |
| <p><b>K.MP.6</b> Attend to precision.</p> | <p><b>Teacher’s Guide pp. 15-16</b> - Introduce Daily Routines and Preview One<br/> <b>Teacher’s Guide pp. 35-36</b>- Explore Shapes<br/> <b>Teacher’s Guide pp. 61-63</b> - Introduce Essential Questions and the Number One<br/> <b>Teacher’s Guide pp. 84-85</b> - The Number Six<br/> <b>Teacher’s Guide p. 92</b> - Learning Centers: Ways to Represent Numbers<br/> <b>Teacher’s Guide pp. 109-110</b> - One-to-One Correspondence and the Number Nine<br/> <b>Teacher’s Guide pp. 126-127</b> - Measurement<br/> <b>Teacher’s Guide pp. 150-151</b> - Identify Shapes in the Environment<br/> <b>Teacher’s Guide pp. 166-168</b> - Introduce Money<br/> <b>Teacher’s Guide pp. 186-188</b> - Ten-Frame Activities: More and Less<br/> <b>Teacher’s Guide p. 211</b> - Formative Assessment: Backpack Bear’s Math Workbook, Page 24<br/> <b>Teacher’s Guide pp. 226-227</b> - Introduce 13<br/> <b>Teacher’s Guide p. 249</b> - Learning Center 5: Summative Assessment: Dot-to-Dot (1-20)<br/> <b>Teacher’s Guide p. 267</b> - Formative Assessment: Draw Shapes with Shaving Cream<br/> <b>Teacher’s Guide pp. 288-289</b> - 3-D Shape Museum Day<br/> <b>Teacher’s Guide pp. 296-297</b> - Backpack Bear’s Treasure Hunt<br/> <b>Teacher’s Guide p. 319</b> - Formative Assessment Make a Representation Chart<br/> <b>Teacher’s Guide p. 338</b> - Formative Assessment: Complete Number Sentences<br/> <b>Teacher’s Guide p. 350</b> -Formative Assessment: Create a 10-Chain<br/> <b>Teacher’s Guide pp. 377-378</b> - Using Counters and Ten-Frames<br/> <b>Teacher’s Guide pp. 391-392</b> - Missing Numbers: Building Addition Number Stories; Solving For X; What Number is Missing?<br/> <b>Teacher’s Guide pp. 414-415</b> - Greater Than/Less Than Game Day<br/> <b>Teacher’s Guide p. 428-429</b> - “Little Boy Blue” Story Problems<br/> <b>Teacher’s Guide pp. 453-454</b> - Writing Equations<br/> <b>Teacher’s Guide p. 474</b> - Formative Assessment: Addition and</p> |

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|  | <p>Subtraction Journal Page</p> <p><b>Teacher's Guide p. 492</b> - Formative Assessment: Draw Pictures to Solve Problems</p> <p><b>Teacher's Guide p. 514</b> - Formative Assessment: Use Measuring Tools</p> <p><b>Teacher's Guide p. 523</b> - Record Lighter or Heavier</p> <p><b>Teacher's Guide p. 549</b> - Formative Assessment: Number Representations from 10 to 20</p> <p><b>Teacher's Guide p. 566</b> - Review Numbers and Sets 10 Through 20</p> <p><b>Teacher's Guide p. 589</b> - Formative Assessment: Draw a Clock</p> <p><b>Teacher's Guide p. 599</b> - Formative Assessment: Classify Hot or Cold</p> <p><b>Teacher's Guide p. 625</b> - Formative Assessment: What's the Operation?</p> <p><b>Teacher's Guide pp. 632-633</b> - Addition and Subtraction</p>   |
| <p><b>K.MP.7</b> Look for and make use of structure.</p> | <p><b>Teacher's Guide pp. 212-213</b> - Introduce Teens Using a Ten-Frame</p> <p><b>Teacher's Guide p. 228</b> - Tens and Ones</p> <p><b>Teacher's Guide pp. 342-343</b> - Introduce 18</p> <p><b>Teacher's Guide p. 322</b> - Directionality of Equations</p> <p><b>Teacher's Guide p. 322</b> - Formative Assessment Creating Equations</p> <p><b>Teacher's Guide p. 329</b> - Summative Assessment: Number Patterns</p> <p><b>Teacher's Guide p. 337</b> - Introduce Number Combinations of 7</p> <p><b>Teacher's Guide p. 341</b> - Formative Assessment: Create Different Combinations of 8</p> <p><b>Teacher's Guide p. 342</b> - Number Patterns of Nine</p> <p><b>Teacher's Guide p. 343</b> - Create Combinations of 9</p> <p><b>Teacher's Guide p. 350</b> - Number Bonds of 10</p> <p><b>Teacher's Guide pp. 351-352</b> - Review Number Bonds</p> <p><b>Teacher's Guide p. 354-356</b> - Arrays up to 20</p> <p><b>Teacher's Guide p. 357-359</b> - Subitizing and Array Review</p> <p><b>Teacher's Guide p. 360</b> - Summative Assessment: Hanger Activity</p> <p><b>Teacher's Guide p. 360</b> - Arrays</p> <p><b>Teacher's Guide p. 372</b> - Formative Assessment: Different Ways to Make 5</p> <p><b>Teacher's Guide pp. 391-392</b> - Missing Numbers</p> <p><b>Teacher's Guide p. 421</b> - "Five Little Teddy Bears" Subtraction Story</p> <p><b>Teacher's Guide p. 430</b> - Subtraction Story Problems: Starfall.com</p> <p><b>Teacher's Guide pp. 435-436</b> - Formative Assessment: Train Subtraction</p> <p><b>Teacher's Guide p. 453</b> - Ways to Write an Addition Equation</p> <p><b>Teacher's Guide p. 461</b> - Summative Assessment: Adding and Subtracting Within 5</p> <p><b>Teacher's Guide pp. 468-469</b> - Creating Addition and Subtraction Equations</p> <p><b>Teacher's Guide p. 472</b> - Formative Assessment: Adding and Subtracting using Money</p> <p><b>Teacher's Guide p. 547</b> - Formative Assessment: Add Numbers</p> |

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|   | <p>to Teens<br/> <b>Teacher's Guide p. 548</b> - Add and Subtract: Compose/Decompose Tens and Ones<br/> <b>Teacher's Guide pp. 620-621</b> - Composing and Decomposing Numbers 6-10<br/> <b>Teacher's Guide p. 632</b> - Magic Math Moment: How Many More or Less?</p>   |
| <p><b>K.MP.8</b> Look for and express regularity in repeated reasoning.</p> | <p><b>Teacher's Guide p. 215</b> - Magic Math Moment: Tens and Ones<br/> <b>Teacher's Guide p. 226</b> - Creating Number Combinations<br/> <b>Teacher's Guide pp. 244-245</b> - Number Riddles/ Introduce 19<br/> <b>Teacher's Guide pp. 318-319</b> - Number Representations 1-5<br/> <b>Teacher's Guide pp. 323-324</b> - Number Representations 6-10<br/> <b>Teacher's Guide pp. 334-335</b> - Addition to 5<br/> <b>Teacher's Guide pp. 336-338</b> - Number Combinations of 6 and 7<br/> <b>Teacher's Guide pp. 339-341</b> - Number Combinations of 8<br/> <b>Teacher's Guide pp. 342-343</b> - Number Combinations of 9<br/> <b>Teacher's Guide p. 350</b> - Number Bonds of 10<br/> <b>Teacher's Guide pp. 351-352</b> - Review Number Bonds<br/> <b>Teacher's Guide pp. 357-358</b> - Subitizing and Array Review<br/> <b>Teacher's Guide p. 359</b> - Formative Assessment: Create Arrays<br/> <b>Teacher's Guide p. 360</b> - Summative Assessment: Hanger Activity<br/> <b>Teacher's Guide p. 378</b> - Formative Assessment: Different Ways to Make 5<br/> <b>Teacher's Guide p. 384</b> - "Shake, Spill, and Add"<br/> <b>Teacher's Guide p. 392</b> - Solving For X<br/> <b>Teacher's Guide p. 400</b> - Summative Assessment: Create Addition Problems to 10<br/> <b>Teacher's Guide p. 434-435</b> - Using a Number Line to Subtract<br/> <b>Teacher's Guide pp. 466-467</b> - Review Addition and Subtraction Facts<br/> <b>Teacher's Guide pp. 490-492</b> - Introduce Fractions<br/> <b>Teacher's Guide pp. 524-525</b> - Weighing Objects<br/> <b>Teacher's Guide pp. 550-551</b> - Teens Practice<br/> <b>Teacher's Guide pp. 552-553</b> - Place Value<br/> <b>Teacher's Guide p. 566</b> - Review Numbers and Sets 10 Through 20<br/> <b>Teacher's Guide pp. 590-591</b> - Hands on the Clock<br/> <b>Teacher's Guide p. 600</b> - Magic Math Moment: How Many to Make Ten?</p> <p><b>Teacher's Guide pp. 620-621</b> - Composing and Decomposing Numbers 6-10<br/> <b>Teacher's Guide p. 622</b> - Addition Game Day<br/> <b>Teacher's Guide p. 624</b> - Patterns Using Coins<br/> <b>Teacher's Guide pp. 624-625</b> - What's the Operation?<br/> <b>Teacher's Guide pp. 632-633</b> - Addition and Subtraction<br/> <b>Teacher's Guide p. 636</b> - Interpreting a Graph</p> |

