



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

**2.1 Numbers and Operation**

**(A) Counting and Cardinality**

| Pennsylvania Standards   | Starfall K Math Alignment   |
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| <p><b>CC.2.1.K.A.1</b> Know number names and write and recite the count sequence.</p>      | <p><b>100th Day of School Supplement pp. 2-4</b> - 100th Day of School Activities<br/> <b>Teacher's Guide Read Me First p. 6</b> - Hundredth Day Chart<br/> <b>Teacher's Guide Read Me First p. 9</b> - Backpack Bear's Math Games: Count to 100<br/> <b>Teacher's Guide p. 64</b> - Daily Routine: Number Line (daily)<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. 212</b> - Counting on from 10-20<br/> <b>Teacher's Guide p. 274</b> - Count by Fives and Tens<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/> <b>Starfall.com:</b> Math: Numbers: Train<br/> <b>Starfall.com:</b> Math: <i>Numbers</i><br/> <b>Starfall.com:</b> Math: Kindergarten Mathematics Generators: Counting - Count to 100</p> |
| <p><b>CC.2.1.K.A.2</b> Apply one-to-one correspondence to count the number of objects.</p> | <p><b>Teacher's Guide Read Me First p. 9</b> - Backpack Bear's Math 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</p>  |

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|  | <p><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>CC.2.1.K.A.3</b> Apply the concept of magnitude to compare numbers and quantities.</p> | <p><b>Teacher’s Guide p. 63</b> - Formative Assessment: Draw Representations of the Number One<br/> <b>Teacher’s Guide p. 68</b> - Math Bag Objects<br/> <b>Teacher’s Guide p. 81</b> - Review Partner Sharing and Finding Fives<br/> <b>Teacher’s Guide p. 79</b> - Seven Hunt<br/> <b>Teacher’s Guide p. 88</b> - Find Sevens<br/> <b>Teacher’s Guide p. 156</b> - Introduce Greater Than or Less Than<br/> <b>Teacher’s Guide p. 168</b> - Toss the Coin<br/> <b>Teacher’s Guide p. 186</b> - Demonstrate More or Less<br/> <b>Teacher’s Guide p. 187</b> - Using Ten Frames to Demonstrate More<br/> <b>Teacher’s Guide p. 190</b> - Equivalent Coins<br/> <b>Teacher’s Guide p. 342</b> - Magic Math Moment: One More/One Less<br/> <b>Teacher’s Guide p. 414</b> - Greater Than/Less Than<br/> <b>Teacher’s Guide p. 511</b> - Formative Assessment: Size Questions</p> |

**(B) Numbers & Operations in Base Ten**

| Pennsylvania Standards   | Starfall K Math Alignment  |
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| <p><b>CC.2.1.K.B.1</b> Use place value to compose and decompose numbers within 19.</p> | <p><b>Teacher’s Guide: Daily Routines</b> - Place Value (Unit 1 - Unit 14)<br/> <b>Teacher’s Guide p. 546</b> - Count on Using Connect Cubes<br/> <b>Teacher’s Guide p. 546</b> - Count on Using Place Value Sticks and Bundles<br/> <b>Teacher’s Guide p. 548</b> - Add and Subtract: Compose and Decompose Tens and Ones<br/> <b>Teacher’s Guide p. 548</b> - Writing Teen Numbers<br/> <b>Teacher’s Guide p. 549</b> - Formative Assessment: Number Representations from 10 to 20<br/> <b>Teacher’s Guide p. 550</b> - Adding Tens and Ones to Create Teen Numbers<br/> <b>Teacher’s Guide p. 550</b> - Create Equations to Equal Teen Numbers<br/> <b>Teacher’s Guide p. 551</b> - Formative Assessment: Create Representations of Teen Numbers<br/> <b>Teacher’s Guide p. 552</b> - Counting by Tens<br/> <b>Teacher’s Guide p. 552</b> - Counting by Ones<br/> <b>Teacher’s Guide p. 553</b> - Formative of Tens Assessment: Combinations of Tens and Ones<br/> <b>Teacher’s Guide p. 564</b> - Combinations of Coins that Equal a Quarter<br/> <i>Starfall.com:</i> Math: Add &amp; Subtract: Place Value</p> |

## 2.2 Algebraic Concept

### (A) Operations and Algebraic Thinking

| Pennsylvania Standards   | Starfall K Math Alignment   |
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| <p><b>CC.2.2.K.A.1</b> Extend the concepts of putting together and taking apart to add and subtract within 10.</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. 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. 381-383</b> - Acting It Out<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 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 Bear Subtraction<br/> <b>Teacher's Guide p. 422</b> - Learning Centers: Add and Subtract<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/> <i>Starfall.com:</i> Math: Add &amp; Subtract: Math Helpers<br/> <i>Starfall.com:</i> Math: Addition &amp; Subtraction: Addition Intro<br/> <i>Starfall.com:</i> Math:Addition &amp; Subtraction: Addition Practice<br/> <i>Starfall.com:</i> Math:Addition &amp; Subtraction: Addition Within 10<br/> <i>Starfall.com:</i> Math:Addition &amp; Subtraction: Subtraction Intro<br/> <i>Starfall.com:</i> Math:Addition &amp; Subtraction: Subtraction Within 10<br/> <i>Starfall.com:</i> Math:Add &amp; Subtract: Word Problems<br/> <i>Starfall.com:</i> Math: Addition &amp; Subtraction: Word Problems Add To: Change Unknown</p> |

## 2.3 Geometry

### (A) Geometry

| Pennsylvania Standards   | Starfall K Math Alignment   |
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| <p><b>CC.2.3.K.A.1</b> Identify and describe two- and three- dimensional shapes.</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</p> |

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|  | <p>rectangle and square)</p> <p><b>Teacher’s Guide p. 134</b> - Computer Center</p> <p><b>Teacher’s Guide p. 150</b> - Identify shapes in the Environment</p> <p><b>Teacher’s Guide pp. 265-267</b> - Shape Properties</p> <p><b>Teacher’s Guide pp. 268-269</b> - Introduce the Cube</p> <p><b>Teacher’s Guide pp. 271-273</b> - Introduce the Rectangular Prism</p> <p><b>Teacher’s Guide pp. 274-275</b> - Introduce the Cone</p> <p><b>Teacher’s Guide pp. 282-283</b> - Introduce the Cylinder</p> <p><b>Teacher’s Guide p. 284</b> - Introduce the Sphere</p> <p><b>Teacher’s Guide pp. 286-287</b> - Introduce the Square Pyramid</p> <p><b>Teacher’s Guide p. 302</b> - Sorting 2D and 3D Shapes</p> <p><b>Starfall.com:</b> Math: Geometry and Measurement: 2D/3D Sort</p> <p><b>Starfall.com:</b> Math: Geometry and Measurement: 2-D/3D Shapes</p> <p><b>Starfall.com:</b> Math: Geometry and Measurement: 3D Space</p> <p><b>Starfall.com:</b> Math - Geometry and Measurement: Triangles &amp; Make Shapes</p> <p><b>Starfall.com:</b> Math - Geometry and Measurement: Puzzles</p> |
| <b>CC.2.3.K.A.2</b> Analyze, compare, create, and compose two- and three-dimensional shapes. | <p><b>Teacher’s Guide p. 151</b> - Draw Shapes</p> <p><b>Teacher’s Guide p. 267</b> - Draw Shapes with Shaving Cream</p> <p><b>Teacher’s Guide p. 276</b> - Learning Centers: Play Dough Shape Town</p> <p><b>Teacher’s Guide p. 297</b> - Draw Shapes</p> <p><b>Teacher’s Guide p. 304</b> - Learning Centers: Play Dough 3-D Shapes</p> <p><b>Teacher’s Guide p. 304</b> - Learning Centers: Constructing 3-D Shapes</p>   |
|  | <p><b>Teacher’s Guide p. 134</b> - Computer Center</p> <p><b>Teacher’s Guide pp. 265-266</b> - Shape Properties</p> <p><b>Teacher’s Guide p. 273</b> - Cubes and Rectangular Prisms</p> <p><b>Starfall.com:</b> Math: Geometry and Measurement: Triangles &amp; Make Shapes</p> <p><b>Starfall.com:</b> Math: Geometry and Measurement: Puzzles</p>  |

## 2.4 Measurement, Data, and Probability

### (A) Measurement and Data

| Pennsylvania Standards   | Starfall K Math Alignment   |
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| <b>CC.2.4.K.A.1</b> Describe and compare attributes of length, area, weight, and capacity of everyday objects. | <p><b>Teacher’s Guide pp. 28-29</b> - Introduce Measuring with Rectangles, Match Lengths, Compare Rectangles</p> <p><b>Teacher’s Guide pp. 126-127</b> - Measurement</p> <p><b>Teacher’s Guide pp. 132-133</b> - Sort by Attribute</p> <p><b>Teacher’s Guide p. 268</b> - Taller or Shorter?</p> <p><b>Teacher’s Guide p. 284</b> - One Less</p> <p><b>Teacher’s Guide p. 285</b> - One More</p> <p><b>Teacher’s Guide pp. 508-509</b> - Measure Distance</p> |

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|   | <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<br><i>Starfall.com</i> : Math: Geometry & Measurement: Measurement  |
| <b>CC.2.4.K.A.4</b><br>Classify objects and count the number of objects in each category. | <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<br><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 & Measurement: Button Sort |

*CC.2.4.K.A.2 and CC.2.4.K.A.3 Intentionally Blank*

\*The standards in this document were copied directly from the *Academic Standards for Mathematics - Pennsylvania Department of Education*.

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

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|   | <p><b>Teacher’s Guide pp. 455-456</b> - My Answer Is . . .</p> <p><b>Teacher’s Guide p. 459</b> - Subtraction Equations</p> <p><b>Teacher’s Guide pp. 466-467</b> - Review Addition and Subtraction Facts</p> <p><b>Teacher’s Guide pp. 430-431</b> - Subtraction Story Problems</p> <p><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</p> <p><b>Teacher’s Guide p. 376</b> - Using Addition Strategies to Solve Equations</p> <p><b>Teacher’s Guide pp. 381-383</b> - Acting It Out</p> <p><b>Teacher’s Guide p. 391</b> - Building Addition Number Stories</p> <p><b>Teacher’s Guide p. 392</b> - Solving for X</p> <p><b>Teacher’s Guide pp. 393-394</b> - Strategies to Solve Story Problems</p> <p><b>Teacher’s Guide pp. 395-396</b> - Story Maps</p> <p><b>Teacher’s Guide p. 417</b> - Partner to Solve Subtraction Problems</p> <p><b>Teacher’s Guide pp. 418-419</b> - Subtraction Practice</p> <p><b>Teacher’s Guide p. 420-421</b> - “Five Little Teddy Bears” Subtraction</p> <p><b>Teacher’s Guide p. 423</b> - Learning Centers: Summative Assessment: “Five Teddy Bears”</p> <p><b>Teacher’s Guide pp. 428-429</b> - “Little Boy Blue” Story Problems</p> <p><b>Teacher’s Guide pp. 430-431</b> - Subtraction Story Problems</p> <p><b>Teacher’s Guide pp. 452-454</b> - Review Addition</p> <p><b>Teacher’s Guide pp. 455-456</b> - My Answer Is . . .</p> <p><b>Teacher’s Guide pp. 457-458</b> - Subtraction</p> <p><b>Teacher’s Guide p. 459</b> - Subtraction Equations</p> <p><b>Teacher’s Guide p. 466</b> - “Build a Tower Addition” Game</p> <p><b>Teacher’s Guide p. 467</b> - “Disappearing Train Cube Subtraction” Game</p> <p><b>Teacher’s Guide pp. 468-469</b> - Creating Addition and Subtraction Equations</p> <p><b>Teacher’s Guide pp. 473-474</b> - Addition and Subtraction Story Problems</p> <p><b>Teacher’s Guide p. 491</b> - Use Pictures to Solve Problems</p> <p><b>Teacher’s Guide p. 492</b> - Draw Pictures to Solve Problems</p> <p><b>Teacher’s Guide p. 496</b> - Measure and Compare Lengths</p> <p><b>Teacher’s Guide p. 497</b> - Measure Using Craft Sticks</p> <p><b>Teacher’s Guide p. 497</b> - Measure Using Cubes</p> <p><b>Teacher’s Guide p. 498</b> - Length of Names</p> <p><b>Teacher’s Guide pp. 499-500</b> - Shortest to Tallest</p> <p><b>Teacher’s Guide p. 500</b> - Measure Objects</p> <p><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”</p> <p><b>Teacher’s Guide p. 375</b> - Using Addition Strategies</p> <p><b>Teacher’s Guide p. 376</b> - Using Addition Strategies to Solve Equations</p> <p><b>Teacher’s Guide pp. 377-378</b> - Use Counters and Ten-Frame Strategies</p> <p><b>Teacher’s Guide pp. 379-380</b> - Using a Number Line to Add</p>  |

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|  | <p><b>Teacher’s Guide p. 381</b> - Addition Equation Cards (Counting On)</p> <p><b>Teacher’s Guide pp. 381-382</b> - Acting It Out</p> <p><b>Teacher’s Guide p. 383</b> - Drawing Pictures</p> <p><b>Teacher’s Guide p. 384</b> - Solve Number Stories</p> <p><b>Teacher’s Guide p. 391</b> - “Five Little Bees”</p> <p><b>Teacher’s Guide p. 391</b> - Building Addition Number Stories</p> <p><b>Teacher’s Guide p. 392</b> - Solving For X</p> <p><b>Teacher’s Guide p. 392</b> - What Number is Missing?</p> <p><b>Teacher’s Guide pp. 393-394</b> - Strategies to Solve Story Problems</p> <p><b>Teacher’s Guide pp. 395-396</b> - Story Maps</p> <p><b>Teacher’s Guide pp. 397-398</b> - Addition With Coins</p> <p><b>Teacher’s Guide p. 400</b> - Learning Centers: Summative Assessment: Create Addition Problems to 10</p> <p><b>Teacher’s Guide p. 414-415</b> - Greater Than/Less Than Game Day</p> <p><b>Teacher’s Guide p. 416</b> - Subtraction as an Operation</p> <p><b>Teacher’s Guide p. 417</b> - Compare Addition and Subtraction Strategies</p> <p><b>Teacher’s Guide p. 417</b> - Partner to Solve Subtraction Problems</p> <p><b>Teacher’s Guide pp. 418-419</b> - Drawing Pictures Strategy</p> <p><b>Teacher’s Guide p. 419</b> - Read It, Draw It, Solve It Practice</p> <p><b>Teacher’s Guide p. 419</b> - Represent Subtraction</p> <p><b>Teacher’s Guide pp. 420-421</b> - “Five Little Teddy Bears” Subtraction</p> <p><b>Teacher’s Guide pp. 428-429</b> - “Little Boy Blue” Story Problems</p> <p><b>Teacher’s Guide pp. 430-431</b> - Subtraction Story Problems</p> <p><b>Teacher’s Guide pp. 432-433</b> - Subtraction and Money</p> <p><b>Teacher’s Guide pp. 434-436</b> - Using a Number Line to Subtract</p> <p><b>Teacher’s Guide pp. 452-454</b> - Review Addition</p> <p><b>Teacher’s Guide pp. 455-456</b> - My Answer Is...</p> <p><b>Teacher’s Guide pp. 457-458</b> - Subtraction</p> <p><b>Teacher’s Guide p. 459</b> - Subtraction Equations</p> <p><b>Teacher’s Guide p. 461</b> - Learning Centers: Summative Assessment: Adding and Subtracting Within 5</p> <p><b>Teacher’s Guide p. 468</b> - “Plus and Minus” Game</p> <p><b>Teacher’s Guide pp. 468-469</b> - Creating Addition and Subtraction Equations</p> <p><b>Teacher’s Guide p. 472</b> - Adding and Subtracting using Money</p> <p><b>Teacher’s Guide pp. 473-474</b> - Addition and Subtraction Story Problems</p> |
| <p><b>K.MP.4</b> Model with mathematics.</p> | <p><b>Teacher’s Guide p. 375</b> - Using Addition Strategies</p> <p><b>Teacher’s Guide p. 376</b> - Using Addition Strategies to Solve Equations</p> <p><b>Teacher’s Guide pp. 381-383</b> - Acting It Out</p> <p><b>Teacher’s Guide p. 391</b> - Building Addition Number Stories</p> <p><b>Teacher’s Guide p. 392</b> - Solving for X</p> <p><b>Teacher’s Guide pp. 393-394</b> - Strategies to Solve Story Problems</p> <p><b>Teacher’s Guide pp. 395-396</b> - Story Maps</p> <p><b>Teacher’s Guide p. 417</b> - Partner to Solve Subtraction Problems</p>  |

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|   | <p><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 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</p> |



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|   | <p><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 Subtraction Journal Page<br/> <b>Teacher's Guide p. 492</b> - Formative Assessment: Draw Pictures to Solve Problems<br/> <b>Teacher's Guide p. 514</b> - Formative Assessment: Use Measuring Tools<br/> <b>Teacher's Guide p. 523</b> - Record Lighter or Heavier</p> |

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|  | <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 to Teens</p> <p><b>Teacher's Guide p. 548</b> - Add and Subtract: Compose/Decompose Tens and Ones</p> <p><b>Teacher's Guide pp. 620-621</b> - Composing and Decomposing</p> |

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|   | <p>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?<br/> <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> |