



### 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
<p><b>K.MP.1</b> Make sense of problems and persevere in solving them.</p>	<p> <b>Teacher's Guide pp. 334-335</b> - Addition to Five  <b>Teacher's Guide p. 350</b> - Number Bonds of Ten  <b>Teacher's Guide pp. 354-356</b> - Arrays Up to 20  <b>Teacher's Guide pp. 374-375</b> - Introduction to Addition  <b>Teacher's Guide pp. 377-378</b> - Using Counters and Ten Frames  <b>Teacher's Guide pp. 379-380</b> - Using a Number Line to Add  <b>Teacher's Guide pp. 381-382</b> - Acting it Out  <b>Teacher's Guide pp. 391-392</b> - Missing Numbers  <b>Teacher's Guide pp. 393-394</b> - Strategies to Solve Story Problems  <b>Teacher's Guide pp. 395-396</b> - Story Maps  <b>Teacher's Guide pp. 416-417</b> - Introduce Subtraction  <b>Teacher's Guide pp. 418-419</b> - Subtraction Practice  <b>Teacher's Guide pp. 420-421</b> - "Five Little Teddy Bears" Subtraction  <b>Teacher's Guide pp. 428-429</b> - "Little Boy Blue" Story Problems  <b>Teacher's Guide pp. 430-431</b> - Subtraction Story Problems  <b>Teacher's Guide pp. 434-436</b> - Using a Number Line to Subtract  <b>Teacher's Guide pp. 455-456</b> - My Answer Is . . .  <b>Teacher's Guide p. 459</b> - Subtraction Equations  <b>Teacher's Guide pp. 466-467</b> - Review Addition and Subtraction Facts  <b>Teacher's Guide pp. 430-431</b> - Subtraction Story Problems  <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  <b>Teacher's Guide p. 376</b> - Using Addition Strategies to Solve Equations  <b>Teacher's Guide pp. 381-383</b> - Acting It Out  <b>Teacher's Guide p. 391</b> - Building Addition Number Stories  <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> <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</p>

	<p>Assessment: Create Addition Problems to 10  <b>Teacher's Guide p. 414-415</b> - Greater Than/Less Than Game Day  <b>Teacher's Guide p. 416</b> - Subtraction as an Operation  <b>Teacher's Guide p. 417</b> - Compare Addition and Subtraction Strategies  <b>Teacher's Guide p. 417</b> - Partner to Solve Subtraction Problems  <b>Teacher's Guide pp. 418-419</b> - Drawing Pictures Strategy  <b>Teacher's Guide p. 419</b> - Read It, Draw It, Solve It Practice  <b>Teacher's Guide p. 419</b> - Represent Subtraction  <b>Teacher's Guide pp. 420-421</b> - "Five Little Teddy Bears" Subtraction  <b>Teacher's Guide pp. 428-429</b> - "Little Boy Blue" Story Problems  <b>Teacher's Guide pp. 430-431</b> - Subtraction Story Problems  <b>Teacher's Guide pp. 432-433</b> - Subtraction and Money  <b>Teacher's Guide pp. 434-436</b> - Using a Number Line to Subtract  <b>Teacher's Guide pp. 452-454</b> - Review Addition  <b>Teacher's Guide pp. 455-456</b> - My Answer Is...  <b>Teacher's Guide pp. 457-458</b> - Subtraction  <b>Teacher's Guide p. 459</b> - Subtraction Equations  <b>Teacher's Guide p. 461</b> - Learning Centers: Summative Assessment: Adding and Subtracting Within 5  <b>Teacher's Guide p. 468</b> - "Plus and Minus" Game  <b>Teacher's Guide pp. 468-469</b> - Creating Addition and Subtraction Equations  <b>Teacher's Guide p. 472</b> - Adding and Subtracting using Money  <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  <b>Teacher's Guide p. 376</b> - Using Addition Strategies to Solve Equations  <b>Teacher's Guide pp. 381-383</b> - Acting It Out  <b>Teacher's Guide p. 391</b> - Building Addition Number Stories  <b>Teacher's Guide p. 392</b> - Solving for X  <b>Teacher's Guide pp. 393-394</b> - Strategies to Solve Story Problems  <b>Teacher's Guide pp. 395-396</b> - Story Maps  <b>Teacher's Guide p. 417</b> - Partner to Solve Subtraction Problems  <b>Teacher's Guide pp. 418-419</b> - Subtraction Practice  <b>Teacher's Guide pp. 420-421</b> - "Five Little Teddy Bears" Subtraction  <b>Teacher's Guide p. 423</b> - Learning Centers: Summative Assessment: "Five Teddy Bears"  <b>Teacher's Guide pp. 428-429</b> - "Little Boy Blue" Story Problems  <b>Teacher's Guide pp. 430-431</b> - Subtraction Story Problems  <b>Teacher's Guide pp. 452-454</b> - Review Addition  <b>Teacher's Guide pp. 455-456</b> - My Answer Is...  <b>Teacher's Guide pp. 457-458</b> - Subtraction  <b>Teacher's Guide p. 459</b> - Subtraction Equations  <b>Teacher's Guide p. 466</b> - "Build a Tower Addition" Game  <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>K.MP.5</b> Use appropriate tools strategically.</p>	<p><b>Teacher's Guide</b> - Daily Routines (Daily)</p> <p><b>Teacher's Guide pp. 15-16</b> - Introduce Daily Routines and Preview One</p> <p><b>Teacher's Guide p. 68</b> - Math Bag Objects</p> <p><b>Teacher's Guide p. 84</b> - Introduce the Number Six</p> <p><b>Teacher's Guide p. 120</b> - Learning Centers: Number Activity Mats</p> <p><b>Teacher's Guide p. 134</b> - Learning Centers: Sorting Objects</p> <p><b>Teacher's Guide p. 156</b> - Greater Than and Less Than</p> <p><b>Teacher's Guide pp. 172-173</b> - Introduce the Dime</p> <p><b>Teacher's Guide pp. 184-185</b> - Ten-Frames</p> <p><b>Teacher's Guide p. 235</b> - Learning Centers: Summative Assessment: Represent Numbers</p> <p><b>Teacher's Guide p. 246</b> - Introduce 20</p> <p><b>Teacher's Guide p. 265</b> - Shape Properties</p> <p><b>Teacher's Guide pp. 284-285</b> - Introduce the Sphere</p> <p><b>Teacher's Guide p. 304</b> - Learning Centers: Constructing 3-D Shapes</p> <p><b>Teacher's Guide pp. 325-326</b> - Review Money (Penny, Nickel, Dime)</p> <p><b>Teacher's Guide pp. 336-337</b> - Number Combinations of 6 and 7</p> <p><b>Teacher's Guide pp. 350-351</b> - Number Bonds of 10</p> <p><b>Teacher's Guide pp. 378-379</b> - Using Counters and Ten-Frames</p> <p><b>Teacher's Guide pp. 393-394</b> - Strategies to Solve Story Problems</p> <p><b>Teacher's Guide p. 422</b> - Learning Centers: "Add and Subtract"</p> <p><b>Teacher's Guide pp. 430-431</b> - Subtraction Story Problems</p> <p><b>Teacher's Guide pp. 455-456</b> - My Answer Is...</p> <p><b>Teacher's Guide pp. 470-471</b> - Plus and Minus</p> <p><b>Teacher's Guide pp. 496-497</b> - Height and Length</p> <p><b>Teacher's Guide pp. 508-509</b> - Measure Distance</p> <p><b>Teacher's Guide pp. 524-525</b> - Weighing Objects</p> <p><b>Teacher's Guide pp. 550-551</b> - Teens Practice</p> <p><b>Teacher's Guide p. 567</b> - Learning Centers: "Count to 50" Number Grid Game</p> <p><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</p> <p><b>Teacher's Guide pp. 35-36</b> - Explore Shapes</p> <p><b>Teacher's Guide pp. 61-63</b> - Introduce Essential Questions and the Number One</p> <p><b>Teacher's Guide pp. 84-85</b> - The Number Six</p> <p><b>Teacher's Guide p. 92</b> - Learning Centers: Ways to Represent</p>

	<p>Numbers</p> <p><b>Teacher’s Guide pp. 109-110</b> - One-to-One Correspondence and the Number Nine</p> <p><b>Teacher’s Guide pp. 126-127</b> - Measurement</p> <p><b>Teacher’s Guide pp. 150-151</b> - Identify Shapes in the Environment</p> <p><b>Teacher’s Guide pp. 166-168</b> - Introduce Money</p> <p><b>Teacher’s Guide pp. 186-188</b> - Ten-Frame Activities: More and Less</p> <p><b>Teacher’s Guide p. 211</b> - Formative Assessment: Backpack Bear’s Math Workbook, Page 24</p> <p><b>Teacher’s Guide pp. 226-227</b> - Introduce 13</p> <p><b>Teacher’s Guide p. 249</b> - Learning Center 5: Summative Assessment: Dot-to-Dot (1-20)</p> <p><b>Teacher’s Guide p. 267</b> - Formative Assessment: Draw Shapes with Shaving Cream</p> <p><b>Teacher’s Guide pp. 288-289</b> - 3-D Shape Museum Day</p> <p><b>Teacher’s Guide pp. 296-297</b> - Backpack Bear’s Treasure Hunt</p> <p><b>Teacher’s Guide p. 319</b> - Formative Assessment Make a Representation Chart</p> <p><b>Teacher’s Guide p. 338</b> - Formative Assessment: Complete Number Sentences</p> <p><b>Teacher’s Guide p. 350</b> -Formative Assessment: Create a 10-Chain</p> <p><b>Teacher’s Guide pp. 377-378</b> - Using Counters and Ten-Frames</p> <p><b>Teacher’s Guide pp. 391-392</b> - Missing Numbers: Building Addition Number Stories; Solving For X; What Number is Missing?</p> <p><b>Teacher’s Guide pp. 414-415</b> - Greater Than/Less Than Game Day</p> <p><b>Teacher’s Guide p. 428-429</b> - “Little Boy Blue” Story Problems</p> <p><b>Teacher’s Guide pp. 453-454</b> - Writing Equations</p> <p><b>Teacher’s Guide p. 474</b> - Formative Assessment: Addition and 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 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 Numbers 6-10</p> <p><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</p> <p><b>Teacher's Guide p. 226</b> - Creating Number Combinations</p> <p><b>Teacher's Guide pp. 244-245</b> - Number Riddles/ Introduce 19</p> <p><b>Teacher's Guide pp. 318-319</b> - Number Representations 1-5</p> <p><b>Teacher's Guide pp. 323-324</b> - Number Representations 6-10</p> <p><b>Teacher's Guide pp. 334-335</b> - Addition to 5</p> <p><b>Teacher's Guide pp. 336-338</b> - Number Combinations of 6 and 7</p> <p><b>Teacher's Guide pp. 339-341</b> - Number Combinations of 8</p> <p><b>Teacher's Guide pp. 342-343</b> - Number Combinations of 9</p>

**Teacher's Guide p. 350** - Number Bonds of 10  
**Teacher's Guide pp. 351-352** - Review Number Bonds  
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**Teacher's Guide p. 360** - Summative Assessment: Hanger Activity  
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**Teacher's Guide p. 384** - "Shake, Spill, and Add"  
**Teacher's Guide p. 392** - Solving For X  
**Teacher's Guide p. 400** - Summative Assessment: Create Addition Problems to 10  
**Teacher's Guide p. 434-435** - Using a Number Line to Subtract  
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**Teacher's Guide pp. 590-591** - Hands on the Clock  
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