



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

(a) Introduction

(4) Counting and Cardinality: Understanding addition as joining and subtraction as separating, and comparing objects by measurable attributes.

Texas Standards	Starfall K Math Alignment
<p>(A) Students develop number and operations through several fundamental concepts. Students know number names and the counting sequence. Counting and cardinality lay a solid foundation for number. Students apply the principles of counting to make the connection between numbers and quantities.</p>	<p><i>Forward:</i> Teacher’s Guide Read Me First p. 6 - Hundredth Day Chart Teacher’s Guide Read Me First p. 9 - Backpack Bear’s Math Games: Count to 100 Teacher’s Guide p. 64 - Daily Routine: Number Line (daily) Teacher’s Guide p. 108 - Daily Routines: Number Line(daily) Teacher’s Guide p. 126 - Equations Teacher’s Guide p. 150 - Review Equations Teacher’s Guide p. 187 - Using Ten-Frames to Demonstrate More Teacher’s Guide p. 212 - Counting on from 10-20 Teacher’s Guide p. 213 - Place Value and Equations with Ten-Frames Teacher’s Guide p. 274 - Count by Fives and Tens Teacher’s Guide p. 282 - Seeing Number Patterns Teacher’s Guide p. 298 - Counting On Teacher’s Guide p. 320 - Counting On from a Given Number Teacher’s Guide p. 325 - Counting by Ones, Fives, and Tens Teacher’s Guide p. 329 - Summative Assessment: Number Patterns Teacher’s Guide p. 335 - Writing Number Sentences Teacher’s Guide p. 336 - Tally Marks Teacher’s Guide p. 338 - Complete Number Sentences Teacher’s Guide p. 341 - Combinations of 8</p>

	<p>Teacher’s Guide p. 352 - Hanger Activity to 10 Teacher’s Guide p. 353 - Write Equations for Ten Teacher’s Guide pp. 354-356 - Arrays to 20 Teacher’s Guide p. 357 - Even and Odd Teacher’s Guide pp. 357-358 - Subitizing: Seeing Patterns Teacher’s Guide p. 359 Create Arrays Teacher’s Guide p. 360 - Summative Assessment: Hanger Activity Teacher’s Guide p. 360 - Equation Flashcards Teacher’s Guide p. 378 Different Ways to Make 5 Teacher’s Guide p. 381 - Addition Equation Cards (Counting On) Teacher’s Guide p. 384 - “What’s Your Answer?” Teacher’s Guide p. 392 - Solving for X Teacher’s Guide p. 394 - Using Strategies to Solve Story Problems Teacher’s Guide p. 400 - Summative Assessment: Create Addition Problems to 10 Teacher’s Guide p. 430 - Number Line Subtraction Teacher’s Guide p. 432 - Subtraction Flash Cards Teacher’s Guide p. 438 - Summative Assessment: Subtraction Teacher’s Guide pp. 452-454 - Review Addition Teacher’s Guide p. 456 - Match the Equation Teacher’s Guide p. 459 - Match the Equation Teacher’s Guide p. 461 - Summative Assessment: Adding and Subtracting Within 5 Teacher’s Guide p. 508 - Missing Number Teacher’s Guide p. 515 - Subtraction Equations Cards Teacher’s Guide p. 522 - Addition and Subtraction Equation Cards Teacher’s Guide p. 555 - Summative Assessment Teacher’s Guide p. 600 - How Many To Make Ten?</p>
<p>(B) Students use meanings of numbers to create strategies for solving problems and responding to practical situations involving addition and subtraction.</p>	<p>Teacher’s Guide pp. 192-193 - Solving Addition Equations Using Money Teacher’s Guide pp. 334-335 - Addition to Five Teacher’s Guide p. 350 - Number Bonds of Ten Teacher’s Guide pp. 354-356 - Arrays Up to 20 Teacher’s Guide pp. 374-375 - Introduction to Addition Teacher’s Guide pp. 377-378 - Using Counters and Ten Frames Teacher’s Guide pp. 379-380 - Using a Number</p>

	<p>Line to Add Teacher’s Guide pp. 381-382 - Acting it Out Teacher’s Guide pp. 391-392 - Missing Numbers Teacher’s Guide pp. 393-394 - Strategies to Solve Story Problems Teacher’s Guide pp. 395-396 - Story Maps Teacher’s Guide pp. 416-417 - Introduce Subtraction Teacher’s Guide pp. 418-419 - Subtraction Practice Teacher’s Guide pp. 420-421 - “Five Little Teddy Bears” Subtraction Teacher’s Guide pp. 428-429 - “Little Boy Blue” Story Problems Teacher’s Guide pp. 430-431 - Subtraction Story Problems Teacher’s Guide pp. 434-436 - Using a Number Line to Subtract Teacher’s Guide pp. 455-456 - My Answer Is . . . Teacher’s Guide p. 459 - Subtraction Equations Teacher’s Guide pp. 466-467 -Review Addition and Subtraction Facts Teacher’s Guide pp. 430-431 - Subtraction Story Problems Teacher’s Guide pp. 468-469 - Creating Addition and Subtraction Equations <i>Starfall.com</i> - Math: Addition and Subtraction</p>
<p>(C) Students identify characteristics of objects that can be measured and directly compare objects according to these measurable attributes.</p>	<p>Teacher’s Guide p. 496 - Measure and Compare Lengths Teacher’s Guide p. 497 - Measure Using Craft Sticks Teacher’s Guide p. 497 - Measure Using Cubes Teacher’s Guide p. 498 - Length of Names Teacher’s Guide pp. 499-500 - Shortest to Tallest Teacher’s Guide p. 500 - Measure Objects Teacher’s Guide p. 502 - Learning Centers: Computer Teacher’s Guide p. 502 - Learning Centers: Measure the Objects Teacher’s Guide p. 502 - Learning Centers: Longer/Taller <i>Starfall.com</i> - Math: Geometry and Measurement</p>

(b) Knowledge and Skills

(1) Mathematical process standards. The student uses mathematical processes to acquire and demonstrate mathematical understanding. The student is expected to:

Texas Standards	Starfall K Math Alignment
(A) Apply mathematics to problems arising in	Teacher’s Guide p. 375 - Using Addition Strategies

<p>everyday life, society, and the workplace.</p>	<p>Teacher’s Guide p. 376 - Using Addition Strategies to Solve Equations Teacher’s Guide pp. 381-383 - Acting It Out Teacher’s Guide p. 391 - Building Addition Number Stories Teacher’s Guide p. 392 - Solving for X Teacher’s Guide pp. 393-394 - Strategies to Solve Story Problems Teacher’s Guide pp. 395-396 - Story Maps Teacher’s Guide p. 417 - Partner to Solve Subtraction Problems Teacher’s Guide pp. 418-419 - Subtraction Practice Teacher’s Guide pp. 420-421 - “Five Little Teddy Bears” Subtraction Teacher’s Guide p. 423 - Learning Centers: Summative Assessment: “Five Teddy Bears” Teacher’s Guide pp. 428-429 - “Little Boy Blue” Story Problems Teacher’s Guide pp. 430-431 - Subtraction Story Problems Teacher’s Guide pp. 452-454 - Review Addition Teacher’s Guide pp. 455-456 - My Answer Is . . . Teacher’s Guide pp. 457-458 - Subtraction Teacher’s Guide p. 459 - Subtraction Equations Teacher’s Guide p. 466 - “Build a Tower Addition” Game Teacher’s Guide p. 467 - “Disappearing Train Cube Subtraction” Game Teacher’s Guide pp. 468-469 - Creating Addition and Subtraction Equations Teacher’s Guide pp. 473-474 - Addition and Subtraction Story Problems Teacher’s Guide p. 491 - Use Pictures to Solve Problems Teacher’s Guide p. 492 - Draw Pictures to Solve Problems</p>
<p>(B) Use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness of the solution.</p>	<p>Teacher’s Guide pp. 334-335 - Addition to Five Teacher’s Guide p. 350 - Number Bonds of Ten Teacher’s Guide pp. 354-356 - Arrays Up to 20 Teacher’s Guide pp. 374-375 - Introduction to Addition Teacher’s Guide pp. 377-378 - Using Counters and Ten Frames Teacher’s Guide pp. 379-380 - Using a Number Line to Add Teacher’s Guide pp. 381-382 - Acting it Out Teacher’s Guide pp. 391-392 - Missing Numbers Teacher’s Guide pp. 393-394 - Strategies to Solve Story Problems Teacher’s Guide pp. 395-396 - Story Maps Teacher’s Guide pp. 416-417 - Introduce</p>

	<p>Subtraction Teacher’s Guide pp. 418-419 - Subtraction Practice Teacher’s Guide pp. 420-421 - “Five Little Teddy Bears” Subtraction Teacher’s Guide pp. 428-429 - “Little Boy Blue” Story Problems Teacher’s Guide pp. 430-431 - Subtraction Story Problems Teacher’s Guide pp. 434-436 - Using a Number Line to Subtract Teacher’s Guide pp. 455-456 - My Answer Is . . . Teacher’s Guide p. 459 - Subtraction Equations Teacher’s Guide pp. 466-467 -Review Addition and Subtraction Facts Teacher’s Guide pp. 430-431 - Subtraction Story Problems Teacher’s Guide pp. 468-469 - Creating Addition and Subtraction Equations</p>
<p>(C) Select tools, including real objects, manipulatives, paper and pencil, and technology as appropriate, and techniques, including mental math, estimation, and number sense as appropriate, to solve problems.</p>	<p>Teacher’s Guide - Daily Routines (Daily) Teacher’s Guide pp. 15-16 - Introduce Daily Routines and Preview One Teacher’s Guide p. 68 - Math Bag Objects Teacher’s Guide p. 84 - Introduce the Number Six Teacher’s Guide p. 120 - Learning Centers: Number Activity Mats Teacher’s Guide p. 134 - Learning Centers: Sorting Objects Teacher’s Guide p. 156 - Greater Than and Less Than Teacher’s Guide pp. 172-173 - Introduce the Dime Teacher’s Guide pp. 184-185 - Ten-Frames Teacher’s Guide p. 235 - Learning Centers: Summative Assessment: Represent Numbers Teacher’s Guide p. 246 - Introduce 20 Teacher’s Guide p. 265 - Shape Properties Teacher’s Guide pp. 284-285 - Introduce the Sphere Teacher’s Guide p. 304 - Learning Centers: Constructing 3-D Shapes Teacher’s Guide pp. 325-326 - Review Money (Penny, Nickel, Dime) Teacher’s Guide pp. 336-337 - Number Combinations of 6 and 7 Teacher’s Guide pp. 350-351 - Number Bonds of 10 Teacher’s Guide pp. 378-379 - Using Counters and Ten-Frames Teacher’s Guide pp. 393-394 - Strategies to Solve Story Problems Teacher’s Guide p. 422 - Learning Centers: “Add and Subtract”</p>

	<p>Teacher’s Guide pp. 430-431 - Subtraction Story Problems</p> <p>Teacher’s Guide pp. 455-456 - My Answer Is...</p> <p>Teacher’s Guide pp. 470-471 - Plus and Minus</p> <p>Teacher’s Guide pp. 496-497 - Height and Length</p> <p>Teacher’s Guide pp. 508-509 - Measure Distance</p> <p>Teacher’s Guide pp. 524-525 - Weighing Objects</p> <p>Teacher’s Guide pp. 550-551 - Teens Practice</p> <p>Teacher’s Guide p. 567 - Learning Centers: “Count to 50” Number Grid Game</p> <p>Teacher’s Guide p. 606 - Learning Centers: Capacity</p>
<p>(D) Communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate.</p>	<p>Teacher’s Guide p. 392 - Solving for X</p> <p>Teacher’s Guide pp. 393-394 - Strategies to Solve Story Problems</p> <p>Teacher’s Guide pp. 395-396 - Story Maps</p> <p>Teacher’s Guide p. 417 - Partner to Solve Subtraction Problems</p> <p>Teacher’s Guide pp. 418-419 - Subtraction Practice</p> <p>Teacher’s Guide p. 420-421 - “Five Little Teddy Bears” Subtraction</p> <p>Teacher’s Guide p. 423 - Learning Centers: Summative Assessment: “Five Teddy Bears”</p> <p>Teacher’s Guide pp. 428-429 - “Little Boy Blue” Story Problems</p> <p>Teacher’s Guide pp. 430-431 - Subtraction Story Problems</p> <p>Teacher’s Guide pp. 452-454 - Review Addition</p> <p>Teacher’s Guide pp. 455-456 - My Answer Is . . .</p> <p>Teacher’s Guide pp. 457-458 - Subtraction</p> <p>Teacher’s Guide p. 459 - Subtraction Equations</p> <p>Teacher’s Guide p. 466 - “Build a Tower Addition” Game</p> <p>Teacher’s Guide p. 467 - “Disappearing Train Cube Subtraction” Game</p> <p>Teacher’s Guide pp. 468-469 - Creating Addition and Subtraction Equations</p> <p>Teacher’s Guide pp. 473-474 - Addition and Subtraction Story Problems</p> <p>Teacher’s Guide p. 491 - Use Pictures to Solve Problems</p> <p>Teacher’s Guide p. 492 - Draw Pictures to Solve Problems</p>
<p>(E) Create and use representations to organize, record, and communicate mathematical ideas.</p>	<p>Teacher’s Guide p. 374 - Introduce “Operation”</p> <p>Teacher’s Guide p. 375 - Using Addition Strategies</p> <p>Teacher’s Guide p. 376 - Using Addition Strategies to Solve Equations</p> <p>Teacher’s Guide pp. 377-378 - Use Counters and Ten-Frame Strategies</p> <p>Teacher’s Guide pp. 379-380 - Using a Number</p>

Line to Add

Teacher's Guide p. 381 - Addition Equation Cards (Counting On)

Teacher's Guide pp. 381-382 - Acting It Out

Teacher's Guide p. 383 - Drawing Pictures

Teacher's Guide p. 384 - Solve Number Stories

Teacher's Guide p. 391 - "Five Little Bees"

Teacher's Guide p. 391 - Building Addition Number Stories

Teacher's Guide p. 392 - Solving For X

Teacher's Guide p. 392 - What Number is Missing?

Teacher's Guide pp. 393-394 - Strategies to Solve Story Problems

Teacher's Guide pp. 395-396 - Story Maps

Teacher's Guide pp. 397-398 - Addition With Coins

Teacher's Guide p. 400 - Learning Centers: Summative Assessment: Create Addition Problems to 10

Teacher's Guide p. 414-415 - Greater Than / Less Than Game Day

Teacher's Guide p. 416 - Subtraction as an Operation

Teacher's Guide p. 417 - Compare Addition and Subtraction Strategies

Teacher's Guide p. 417 - Partner to Solve Subtraction Problems

Teacher's Guide pp. 418-419 - Drawing Pictures Strategy

Teacher's Guide p. 419 - Read It, Draw It, Solve It Practice

Teacher's Guide p. 419 - Represent Subtraction

Teacher's Guide pp. 420-421 - "Five Little Teddy Bears" Subtraction

Teacher's Guide pp. 428-429 - "Little Boy Blue" Story Problems

Teacher's Guide pp. 430-431 - Subtraction Story Problems

Teacher's Guide pp. 432-433 - Subtraction and Money

Teacher's Guide pp. 434-436 - Using a Number Line to Subtract

Teacher's Guide pp. 452-454 - Review Addition

Teacher's Guide pp. 455-456 - My Answer Is...

Teacher's Guide pp. 457-458 - Subtraction

Teacher's Guide p. 459 - Subtraction Equations

Teacher's Guide p. 461 - Learning Centers: Summative Assessment: Adding and Subtracting Within 5

Teacher's Guide p. 468 - "Plus and Minus" Game

Teacher's Guide pp. 468-469 - Creating Addition and Subtraction Equations

Teacher's Guide p. 472 - Adding and Subtracting

	<p>using Money Teacher's Guide pp. 473-474 - Addition and Subtraction Story Problems</p>
<p>(F) Analyze mathematical relationships to connect and communicate mathematical ideas.</p>	<p>Teacher's Guide p. 381 - Addition Equation Cards (Counting On) Teacher's Guide p. 395 - Greater Number Teacher's Guide p. 400 - Summative Assessment: Create Addition Problems to 10 Teacher's Guide p. 430 - Subtraction Story Problems Teacher's Guide p. 433 - Practice with Coins Teacher's Guide p. 438 - Summative Assessment: Subtraction Teacher's Guide p. 454 - Solve Addition Equations Teacher's Guide p. 455 - Word Problems Teacher's Guide p. 466 - Addition and Subtraction Equation Cards Teacher's Guide pp. 473-474 - Addition and Subtraction Story Problems Teacher's Guide p. 490 - Creating Equal Groups Teacher's Guide p. 492 - Divide Pennies into Honey Jar Banks Teacher's Guide p. 511 - Size Questions Teacher's Guide p.600 - How Many to Make Ten? Teacher's Guide p. 604 - More Than/Less Than Riddles Teacher's Guide pp. 620-621 - Composing and Decomposing Numbers 6-10 Teacher's Guide p.622 - Addition Game Day Teacher's Guide p. 623 - Subtraction Ball Toss Teacher's Guide p. 625 - What's the Operation? Teacher's Guide p. 632 - How Many More or Less? Teacher's Guide pp. 632-633 - Addition and Subtraction Teacher's Guide p. 636 - Interpreting a Graph</p>
<p>(G) Display, explain, and justify mathematical ideas and arguments using precise mathematical language in written or oral communication.</p>	<p>Teacher's Guide pp. 15-16 - Introduce Daily Routines and Preview One Teacher's Guide pp. 35-36- Explore Shapes Teacher's Guide pp. 61-63 - Introduce Essential Questions and the Number One Teacher's Guide pp. 84-85 - The Number Six Teacher's Guide p. 92 - Learning Centers: Ways to Represent Numbers Teacher's Guide pp. 109-110 - One-to-One Correspondence and the Number Nine Teacher's Guide pp. 126-127 - Measurement Teacher's Guide pp. 150-151 - Identify Shapes in the Environment</p>

	Teacher’s Guide pp. 166-168 - Introduce Money Teacher’s Guide pp. 186-188 - Ten-Frame Activities: More and Less
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(2) Number and Operation

The student applies mathematical process standards to understand how to represent and compare whole numbers, the relative position and magnitude of whole numbers, and relationships within the numeration system. The student is expected to:

Texas Standards	Starfall K Math Alignment
<p>(A) Count forward and backward to at least 20 with and without objects.</p>	<p><i>Forward:</i> Teacher’s Guide Read Me First p. 6 - Hundredth Day Chart Teacher’s Guide Read Me First p. 9 - Backpack Bear’s Math Games: Count to 100 Teacher’s Guide p. 64 - Daily Routine: Number Line (daily) Teacher’s Guide p. 108 - Daily Routines: Number Line(daily) Teacher’s Guide p. 212 - Counting on from 10-20 Teacher’s Guide p. 274 - Count by Fives and Tens Teacher’s Guide p. 298 - Counting On Teacher’s Guide p. 320 - Counting On from a Given Number Teacher’s Guide p. 379 - Counting On Using the Number Line Teacher’s Guide p. 546 - Counting on from 10 Teacher’s Guide p. 560 - Counting On Starfall.com: Math: Numbers Starfall.com: Math: Add & Subtract: Place Value Starfall.com: Math: Kindergarten Mathematics Generators: Counting - Count to 100 100th Day of School Supplement pp. 2-4 - 100th Day of School Activities Starfall.com: Math: Numbers: Train <i>Backward:</i> Teacher’s Guide p. 47 - Introduce Zero Teacher’s Guide p. 47 - Count Down From 5 Teacher Guide p. 48 - Zero Song Starfall.com: Math Songs: “Zero Song” & “5 Little Speckled Frogs” Starfall.com: Math: Numbers - 123 “Feed the Animals” and “Count Cookie”</p>
<p>(B) Read, write, and represent whole numbers from 0 to at least 20 with and without objects or pictures.</p>	<p>Teacher’s Guide pp. 199 - 248 - Unit 5: Troublesome Teens Teacher’s Guide pp. 246-247 - Introduce 20 Teacher’s Guide p. 248 - Learning Centers: Computer</p>

	<p>Teacher's Guide p. 248 - Learning Centers: A Walk in the Park</p> <p>Teacher's Guide p.249 - Learning Centers: Dot-to-Dot (1-20)</p> <p>Teacher's Guide pp. 546-547- Numbers 10-20</p> <p>Backpack Bear's Math Workbook 1 - Numbers 1 - 20</p>
<p>(C) Count a set of objects up to at least 20 and demonstrate that the last number said tells the number of objects in the set regardless of their arrangement or order.</p>	<p>Teacher's Guide pp. 87- 88 - The Number Seven</p> <p>Teacher's Guide p.120 - Learning Centers: Number Activity Mats</p> <p>Teacher's Guide pp. 318-319 - Number Representations 1-5</p> <p>Teacher's Guide p. 323 - Match Dominoes to Number Cards</p> <p>Teacher's Guide pp. 323-324 - Number Representations 6-10</p> <p><i>Starfall.com</i>: Math: Numbers</p>
<p>(D) Recognize instantly the quantity of a small group of objects in organized and random arrangement.</p>	<p>Teacher's Guide p. 318 - Toss the Dice</p> <p>Teacher's Guide p. 336 - Tally Marks</p> <p>Teacher's Guide pp. 354-355 - Arrays up to 20</p> <p>Teacher's Guide p. 358 - Write That Number</p> <p>Teacher's Guide p. 359 - Create Arrays</p>
<p>(E) Generate a set using concrete and pictorial models that represents a number that is more than, less than, and equal to a given number up to 20.</p>	<p>Teacher's Guide p. 155 - Evaluate Most, Least, and Same</p> <p>Teacher's Guide pp. 156-158 - Greater Than and Less Than</p> <p>Teacher's Guide pp. 187-188 - Using Ten Frames to Demonstrate More</p> <p>Teacher's Guide p. 189 - Number Line Riddles</p> <p>Teacher's Guide p. 288 - One Less</p> <p>Teacher's Guide p. 342 - One More/One Less</p> <p>Teacher's Guide p. 415 - Pocket Chart Game</p> <p>Teacher's Guide p. 490 - Creating Equal Groups</p> <p>Teacher's Guide p. 633 - How Many More or Less?</p> <p><i>Starfall.com</i>: Math: Greater Than/Less Than</p>
<p>(F) Generate a number that is one more than or one less than another number up to at least 20.</p>	<p>Teacher's Guide p. 128 - <i>Less Than</i></p> <p>Teacher's Guide p. 132 - One More</p> <p>Teacher's Guide p. 288 - One Less</p> <p>Teacher's Guide p. 342 - One More/One Less</p>
<p>(G) Compare sets of objects up to at least 20 in each set using comparative language.</p>	<p>Teacher's Guide p. 155 - Evaluate Most, Least, and Same</p> <p>Teacher's Guide pp. 156-158 - Greater Than and Less Than</p> <p>Teacher's Guide pp. 187-188 - Using Ten Frames to Demonstrate More</p> <p>Teacher's Guide p. 189 - Number Line Riddles</p> <p>Teacher's Guide p. 288 - One Less</p> <p>Teacher's Guide p. 342 - One More/One Less</p>

	<p>Teacher’s Guide p. 415 - Pocket Chart Game Teacher’s Guide p. 490 - Creating Equal Groups Teacher’s Guide p. 633 - How Many More or Less? Starfall.com: Math: Greater Than/Less Than</p>
<p>(H) Use comparative language to describe two numbers up to 20 presented as written numerals.</p>	<p>Teacher’s Guide p. 90 - What Number Comes Between? Teacher’s Guide p. 128 - Less Than Teacher’s Guide p. 132 - One More Teacher’s Guide p. 155 - Evaluate Most, Least, and Same Teacher’s Guide p. 187 - “Thumbs Up/Thumbs Down” Teacher’s Guide p. 195 - Learning Centers: Banker, Customer - grade level. Appropriate terminology to use would be more than, less than, or the same as. “High/Low” Teacher’s Guide p. 242 - Estimation Teacher’s Guide p. 265 - Number Sense Teacher’s Guide p. 288 - One Less Teacher’s Guide p. 415 - Mystery Number Game Starfall.com: Math: Add & Subtract: Base Ten Practice</p>
<p>(I) Compose and decompose numbers up to 10 with objects and pictures</p>	<p>Teacher’s Guide pp. 350 - Number Bonds to 10 Teacher’s Guide pp. 351-352 - Review Number Bonds Teacher’s Guide p. 353 - Write Equations for Ten Teacher’s Guide p. 377 - Using Counters and Ten-Frames Teacher’s Guide p. 384 - Learning Centers: Shake, Spill, and Add Teacher’s Guide p. 400 - Create Addition Problems to 10 Teacher’s Guide pp. 452-453 - Review Addition Teacher’s Guide pp. 468-469 - Creating Addition and Subtraction Equations Teacher’s Guide pp. 620-621 -Composing and Decomposing Numbers 6-10 Starfall.com: Math: Add & Subtract: Compose/Decompose Tens and Ones Starfall.com: Math: Add & Subtract: Math Helpers</p>

(3) Number and Operations

The student applies mathematical process standards to develop an understanding of addition and subtraction situations in order to solve problems. The student is expected to:

Texas Standards	Starfall K Math Alignment
<p>(A) Model the action of joining to represent addition</p>	<p>Teacher’s Guide p.112 - Story Problems</p>

<p>and the action of separating to represent subtraction.</p>	<p>Teacher’s Guide p. 296 - Act It Out: Subtraction Teacher’s Guide pp. 374-375 - Introduction to Addition Teacher’s Guide p. 376 - Using Addition Strategies to Solve Equations Teacher’s Guide pp. 379-380 - Using a Number Line to Add Teacher’s Guide pp. 381-383 - Acting It Out Teacher’s Guide p. 417 - Partner to Solve Subtraction Problems Teacher’s Guide pp. 428-429 - Little Boy Blue Story Problems Teacher’s Guide pp. 430-431 - Subtraction Story Problem Teacher’s Guide pp. 457-458 -Subtraction</p>
<p>(B) Solve word problems using objects and drawings to find sums up to 10 and differences within 10.</p>	<p>Teacher’s Guide pp. 377-378 - Using Counters and Ten-Frames Teacher’s Guide pp. 382-383 - Create an Addition Story; Drawing Pictures Teacher’s Guide p. 383 - Solve Number Stories Teacher’s Guide p. 396 - Story Maps Teacher’s Guide pp. 418-419 - Subtraction Practice Teacher’s Guide pp. 420-421 - Five Little Teddy Bear Subtraction Teacher’s Guide p. 422 - Learning Centers: Add and Subtract Starfall.com: Math: Addition & Subtraction: Addition Intro Starfall.com: Math:Addition & Subtraction: Addition Practice Starfall.com: Math:Addition & Subtraction: Addition Within 10 Starfall.com: Math:Addition & Subtraction: Subtraction Intro Starfall.com: Math:Addition & Subtraction: Subtraction Within 10 Starfall.com: Math:Add & Subtract: Word Problems Starfall.com: Math: Addition & Subtraction: Word Problems Add To: Change Unknown</p>
<p>(C) Explain the strategies used to solve problems involving adding and subtracting within 10 using spoken words, concrete and pictorial models, and number sentences.</p>	<p>Teacher’s Guide p. 375 - Using Addition Strategies Teacher’s Guide pp. 379-380 - Using a Number Line to Add Teacher’s Guide pp. 381-383 - Acting It Out! Teacher’s Guide pp. 393-394 - Strategies to Solve Story Problems Teacher’s Guide p. 421 - “Add and Subtract” Teacher’s Guide p. 429 - “Little Boy Blue” Subtraction Teacher’s Guide p. 433 - Practice with Coins Teacher’s Guide pp. 434-436 - Using a Number</p>

	<p>Line to Subtract</p> <p>Teacher’s Guide p. 437 - “Add and Subtract”</p> <p>Teacher’s Guide p. 438 - Summative Assessment: Subtraction</p> <p>Teacher’s Guide pp. 452-454 - Review Addition</p> <p>Teacher’s Guide pp. 455-456 - Review Strategies for Adding</p> <p>Teacher’s Guide pp. 457-458 - Subtraction</p> <p>Teacher’s Guide p. 471 - Adding and Subtraction with Money</p> <p>Teacher’s Guide p. 472 - Adding and Subtracting using Money</p> <p>Teacher’s Guide pp. 473-474 - Addition and Subtraction Story Problems</p> <p>Teacher’s Guide p. 475 - Add & Subtract</p> <p>Starfall.com: Math - “Addition and Subtraction”- Addition within 10</p> <p>Starfall.com: Math - “Addition and Subtraction”- Addition Intro</p> <p>Starfall.com: Math - “Addition and Subtraction”- Subtraction within 10</p> <p>Starfall.com: Math - “Addition and Subtraction”- Subtraction Intro</p>
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(4) Number and Operations

Texas Standards	Starfall K Math Alignment
<p>The student applies mathematical process standards to identify coins in order to recognize the need for monetary transactions. The student is expected to identify U.S. coins by name, including pennies, nickels, dimes, and quarters</p>	<p>Teacher’s Guide p. 166 - Introduce the Penny</p> <p>Teacher’s Guide p. 167 - Introduce the Penny Rhyme</p> <p>Teacher’s Guide p. 171 - Compare Nickel and Penny</p> <p>Teacher’s Guide p. 175 - Introduce “Coin Town”</p> <p>Teacher’s Guide p. 176 - Color Pennies, Nickels, and Dimes</p> <p>Teacher’s Guide p. 177 - “Coin Town” Game</p> <p>Teacher’s Guide p. 177 - Coin Concentration</p> <p>Teacher’s Guide p. 189 - Money Review</p> <p>Teacher’s Guide p. 191 - Which is Worth More?</p> <p>Teacher’s Guide p. 624 - Patterns Using Coins</p> <p><i>Starfall.com:</i> Math - “Coin Concentration”</p> <p><i>Starfall.com:</i> Math - “Coin Sort”</p>

(5) Algebraic Reasoning

Texas Standards	Starfall K Math Alignment
<p>The student applies mathematical process standards to identify the pattern in the number word list. The student is expected to recite numbers</p>	<p>Teacher’s Guide <i>Read Me First</i> p. 6 - Hundredth Day Chart</p> <p>Teacher’s Guide <i>Read Me First</i> p. 9 - Backpack</p>

<p>up to at least 100 by ones and tens beginning with any given number</p>	<p>Bear's Math Games: Count to 100 Teacher's Guide p. 108 - Daily Routines: Number Line (daily) Teacher's Guide p. 115 - Number Bundles Teacher's Guide p. 274 - Count by Fives and Tens 100th Day of School Supplement pp. 2-4 - 100th Day of School Activities <i>Starfall.com:</i> Math: <i>Numbers</i> <i>Starfall.com:</i> Math: Add & Subtract: Place Value <i>Starfall.com:</i> Math: Kindergarten Mathematics Generators: Counting - Count to 100</p>
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(6) Geometry and Measurement

The student applies mathematical process standards to analyze attributes of two-dimensional shapes and three-dimensional solids to develop generalizations about their properties. The student is expected to:

Texas Standards	Starfall K Math Alignment
<p>(A) Identify two-dimensional shapes, including circles, triangles, rectangles, and squares as special rectangles.</p>	<p>Teacher's Guide pp. 18-19 - Review One, Preview Two (Properties of a circle) Teacher's Guide pp. 21-22 - Preview Three (Properties of a Triangle) Teacher's Guide pp. 24-25 - Preview Four (Properties of a rectangle and square) Teacher's Guide p. 134 - Computer Center Teacher's Guide p. 150 - Identify shapes in the Environment Teacher's Guide pp. 265-266 - Shape Properties <i>Starfall.com:</i> Math - Geometry and Measurement: Triangles & Make Shapes <i>Starfall.com:</i> Math - Geometry and Measurement: Puzzles <i>Starfall.com:</i> Math - Geometry and Measurement: 2D/3D Shapes</p>
<p>(B) Identify three-dimensional solids, including cylinders, cones, spheres, and cubes, in the real world.</p>	<p>Teacher's Guide pp. 271-273 - Introduce the Rectangular Prism Teacher's Guide pp. 274-275 - Introduce the Cone Teacher's Guide pp. 282-283 - Introduce the Cylinder Teacher's Guide p. 284 - Introduce the Sphere Teacher's Guide pp. 286-287 - Introduce the Square Pyramid Teacher's Guide p. 302 - Sorting 2D and 3D Shapes <i>Starfall.com:</i> Math: Geometry and Measurement:</p>

	<p>2D/3D Sort Starfall.com: Math: Geometry and Measurement: 2-D/3D Shapes Starfall.com: Math: Geometry and Measurement: 3D Space</p>
<p>(C) Identify two-dimensional components of three-dimensional objects.</p>	<p>Teacher’s Guide p. 302 - Sorting 2D and 3D Shapes Starfall.com: Math: Geometry and Measurement: 2D/3D Sort Starfall.com: Math: Geometry and Measurement: 2-D/3D Shapes Starfall.com: Math: Geometry and Measurement: 3D Space</p>
<p>(D) Identify attributes of two-dimensional shapes using informal and formal geometric language interchangeably.</p>	<p>Teacher’s Guide pp. 265-266 - Shape Properties Teacher’s Guide p. 269 - Introduce the Math Net Teacher’s Guide p. 272- Introduce the Rectangular Prism Math Net Teacher’s Guide p. 275 - Introduce the Cone Math Net Teacher’s Guide p. 282 - Introduce the Cylinder Math Net Teacher’s Guide p. 283 - Properties of a Cylinder Teacher’s Guide p. 285 - Compare Circles and Spheres Teacher’s Guide p. 287 - Introduce the Square Pyramid Math Net Teacher’s Guide p. 289 - Sort Items Into Groups Teacher’s Guide pp. 296-297 -<i>Backpack Bear’s Treasure Hunt</i> Teacher’s Guide p. 301 - Graphing 3-D Shapes Teacher’s Guide p. 303 - Distinguishing 2D and 3D Shapes</p>
<p>(E) Classify and sort a variety of regular and irregular two- and three-dimensional figures regardless of orientation or size.</p>	<p>Teacher’s Guide pp. 18-19 - Review One, Preview Two (Properties of a circle) Teacher’s Guide pp. 21-22 - Preview Three (Properties of a Triangle) Teacher’s Guide pp. 24-25 - Preview Four (Properties of a rectangle and square) Teacher’s Guide p. 134 - Computer Center Teacher’s Guide p. 150 - Identify shapes in the Environment Teacher’s Guide pp. 265-266 - Shape Properties Starfall.com: Math - Geometry and Measurement: Triangles & Make Shapes Starfall.com: Math - Geometry and Measurement: Puzzles Starfall.com: Math - Geometry and Measurement: 2D/3D Shapes</p>

<p>(F) Create two-dimensional shapes using a variety of materials and drawings.</p>	<p>Teacher's Guide p. 151 - Draw Shapes Teacher's Guide p. 267 - Draw Shapes with Shaving Cream Teacher's Guide p. 276 - Learning Centers: Play Dough Shape Town Teacher's Guide p. 297 - Draw Shapes Teacher's Guide p. 304 - Learning Centers: Play Dough 3-D Shapes Teacher's Guide p. 304 - Learning Centers: Constructing 3-D Shapes</p>
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(7) Geometry and Measurement

The student applies mathematical process standards to directly compare measurable attributes. The student is expected to:

Texas Standards	Starfall K Math Alignment
<p>(A) Give an example of a measurable attribute of a given object, including length, capacity, and weight.</p>	<p>Teacher's Guide pp.126-127 - Measurement Teacher's Guide pp. 132-133 - Sort by Attribute Teacher's Guide pp. 508-509 - Measure Distance Teacher's Guide pp. 510-511- Classroom Size Comparison Teacher's Guide pp. 512-514 - Comparing Surface Area Starfall.com: Math: Geometry & Measurement: Measurement Starfall.com: Math: Geometry & Measurement: Weight</p>
<p>(B) Compare two objects with a common measurable attribute to see which object has more of/less of the attribute and describe the difference.</p>	<p>Teacher's Guide pp. 28-29 - Introduce Measuring with Rectangles, Match Lengths, Compare Rectangles Teacher's Guide pp. 126 - 127 - Introduce Measurement Teacher's Guide p. 268 - Taller or Shorter? Teacher's Guide p. 284 - One Less Teacher's Guide p. 285 - One More Starfall.com: Math: Geometry & Measurement: Measurement</p>

(8) Data Analysis

The student applies mathematical process standards to collect and organize data to make it useful for interpreting information. The student is expected to:

Texas Standards	Starfall K Math Alignment
<p>(A) Collect, sort, and organize data into two or three categories</p>	<p>Teacher's Guide p. 132 - Sort by Attributes: Introduce Attributes Teacher's Guide p. 132 - Sorting by Attributes</p>

	Teacher's Guide p. 134 - Learning Centers: Sorting Objects Teacher's Guide p. 339 - What's My Sorting Rule
(B) Use data to create real-object and picture graphs.	Teacher's Guide p. 154 - Introduce Graphs Teacher's Guide p. 154 - Create a Graph Teacher's Guide p. 155 - Formative Assessment: Evaluate Most, Least, and Same
(C) Draw conclusions from real-object and picture graphs.	Teacher's Guide p. 154 - Introduce Graphs Teacher's Guide p. 154 - Create a Graph Teacher's Guide p. 155 - Formative Assessment: Evaluate Most, Least, and Same

Standards in this document were copied directly from the Texas Essential Knowledge and Skills for Kindergarten revised August 2016.

****Publisher's Note:** The citations included in this alignment represent a sampling of the Starfall Kindergarten Math Curriculum. Each standard is covered in depth throughout the curriculum. Additional Starfall standards may be found in the Teacher's Guide.