



West Virginia State Kindergarten Math Standards Alignment to Starfall

Counting and Cardinality K.CC

Know number names and the count sequence.

West Virginia Standards	Starfall K Math Alignment
<p>M.K.CC.1 Count to 100 by ones and by tens.</p>	<p>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. 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>
<p>M.K.CC.2 Count forward beginning from a given number within the known sequence (instead of having to begin at 1).</p>	<p>Teacher's Guide p. 64 - Daily Routine: Number Line (daily) Teacher's Guide p. 212 - Counting on from 10-20 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 <i>Starfall.com:</i> Math: Numbers: Train</p>
<p>M.K.CC.3 Write numbers from 0 to 20. Represent a number of objects with a written numeral 0-20 (with 0 representing a count of no objects).</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 Teacher's Guide p. 248 - Learning Centers: A Walk in the Park Teacher's Guide p.249 - Learning Centers: Dot-to-Dot (1-20) Teacher's Guide pp. 546-547- Numbers 10-20 Backpack Bear's Math Workbook 1 - Numbers 1 - 20</p>

Count to tell the number of objects.

West Virginia Standards	Starfall K Math Alignment
<p>M.K.CC.4 Understand the relationship between numbers and quantities; connect counting to cardinality.</p> <p>a. 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.</p>	<p>Teacher’s Guide Read Me First p. 9 - Backpack Bear’s Math Games - “Race to 20”</p> <p>Teacher’s Guide p. 87 - Using Math Strategies</p> <p>Teacher’s Guide p.92 - Learning Centers: Ways to Represent Numbers</p> <p>Teacher’s Guide pp. 109-110 - One-to-One Correspondence and the Number Nine</p> <p>Teacher’s Guide pp.112-113 - The Number Zero</p> <p>Teacher’s Guide p. 116 - Formative Assessment</p> <p>Teacher’s Guide p. 282 - Seeing Number Patterns</p> <p>Starfall.com: Math: Numbers</p> <p>Starfall.com: Math Songs</p> <p>Starfall.com: Math: Numbers: Count Cookies</p>
<p>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.</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>Starfall.com: Math: Numbers</p>
<p>c. Understand that each successive number name refers to a quantity that is one larger</p>	<p>Teacher’s Guide p. 40 - Daily Routines: Number Line (daily)</p> <p>Teacher’s Guide p. 44 - Daily Routines: Hundreds Chart (daily)</p> <p>Teacher’s Guide p.60 - Daily Routines: Place Value (daily)</p> <p>Teacher’s Guide p. 81 - Count to Five</p> <p>Teacher’s Guide pp. 84-85 - The Number Six</p> <p>Starfall.com: Math: Numbers</p> <p>Starfall.com: Math Songs</p>
<p>M.K.CC.5 Count to answer “how many?” questions about as many as 20 things arranged in a line, a rectangular array, or a circle, or as many as 10 things in a scattered configuration; given a number from 1–20, count out that many objects.</p>	<p>Teacher’s Guide p. 60 - Daily Routines: Number Line - “How Many Days Have We Been in School?”</p> <p>Teacher’s Guide p. 277 - Learning Centers: Race to 20</p> <p>Teacher’s Guide pp. 354-356 - Arrays to 20</p> <p>Teacher’s Guide pp. 357-359 - Subitizing and Array Review</p> <p>Teacher’s Guide p. 360 - Learning Center: Arrays</p>

Compare numbers.

West Virginia Standards	Starfall K Math Alignment
<p>M.K.CC.6 Identify whether the number of objects in one group is greater than, less than, or equal to the number of objects in another group, e.g., by using matching and counting strategies.</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 Teacher's Guide p. 342 - One More/One Less 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>M.K.CC.7 Compare two numbers between 1 and 10 presented as written numerals.</p>	<p>Teacher's Guide p. 128 - Less Than Teacher's Guide p. 132 - One More Teacher's Guide p. 187 - "Thumbs Up/Thumbs Down" Teacher's Guide p. 195 - Learning Centers: Banker, Customer - "High/Low" Teacher's Guide p. 265 - Number Sense Teacher's Guide p. 415 - Mystery Number Game Starfall.com: Math: Add & Subtract: Base Ten Practice</p>

Operations and Algebraic Thinking K.OA

Understand addition as putting together and adding to, and understand subtraction as taking apart and taking from.

West Virginia Standards	Starfall K Math Alignment
<p>M.K.OA.1 Represent addition and subtraction with objects, fingers, mental images, drawings sounds (e.g., claps), acting out situations, verbal explanations, expressions, or equations.</p>	<p>Teacher's Guide p.112 - Story Problems 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 Starfall.com: Math: Add & Subtract: Math Helpers</p>
<p>M.K.OA.2 Solve addition and subtraction word problems, and add and subtract within 10, e.g., by using objects or drawings to represent the problem.</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</p>

	<p>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>M.K.OA.3 Decompose numbers less than or equal to 10 into pairs in more than one way, e.g., by using objects or drawings, and record each decomposition by a drawing or equation (e.g., $5 = 2 + 3$ and $5 = 4 + 1$).</p>	<p>Teacher’s Guide pp. 350 - Number Bonds to 10 Teacher’s Guide pp. 351-352 - Review Number Bonds Teacher 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>
<p>M.K.OA.4 For any number from 1 to 9, find the number that makes 10 when added to the given number, e.g., by using objects or drawings, and record the answer with a drawing or equation.</p>	<p>Teacher’s Guide p. 352 - Hanger Activity to 10 Teacher’s Guide pp. 374-375 - Introduction to Addition Teacher’s Guide pp. 381-383 - Act It Out! Teacher’s Guide pp. 453-454 - Ways to Write an Addition Equation/Writing Equations/Solving Addition Equations Teacher’s Guide p. 468 - Plus and Minus Game Teacher’s Guide p. 474 - Addition and Subtraction Journal Page Teacher’s Guide p. 508 - Missing Number Starfall.com: Math: Add & Subtract: Math Helpers Starfall.com: Math: Add & Subtract: Make 10 Numbers Starfall.com: Math: Make 10 Objects</p>
<p>M.K.OA.5 Fluently add and subtract within 5.</p>	<p>Teacher’s Guide p. 466 - Addition and Subtraction Equation Cards Teacher’s Guide p. 469 - What’s My Sign? Teacher’s Guide p. 475 - Learning Centers: Flash Card Game Teacher’s Guide p. 622 - Addition Game Day Teacher’s Guide p. 623 - Subtraction Ball Toss Teacher’s Guide p. 625 - Play “What’s the Operation?” Teacher’s Guide p.625 - What’s the Operation? Teacher’s Guide pp. 632-633 - Addition and Subtraction Starfall.com: Math: Add & Subtract: Addition Intro Starfall.com: Math: Add & Subtract: Addition Within 10 Starfall.com: Math: Add & Subtract: Addition Practice Starfall.com: Math: Add & Subtract: Subtraction Intro Starfall.com: Math: Add & Subtract: Subtraction Within 10 Starfall.com: Math: Add & Subtract: Subtraction Practice</p>

Number and Operations in Base Ten K.NBT

Work with numbers 11–19 to gain foundations for place value.

West Virginia Standards	Starfall K Math Alignment
<p>M.K.NBT.1 Compose and decompose numbers from 11 to 19 into ten ones and some further ones, e.g., by using objects or drawings, and record each composition or decomposition by a drawing or equation (e.g., $18 = 10 + 8$); understand that these numbers are composed of ten ones and one, two, three, four, five, six, seven, eight, or nine ones.</p>	<p>Teacher’s Guide pp. 546-547 - Numbers 10-20 Teacher’s Guide pp. 548-549 - Recognize Numbers and Sets of 10 to 20 Teacher’s Guide pp. 550-551 - Teens Practice Teacher’s Guide pp. 552-553 - Place Value Teacher’s Guide p. 555 - Learning Centers: Summative Assessment <i>Starfall.com:</i> Math: Add & Subtract: Place Value <i>Starfall.com:</i> Math: Add & Subtract: Addition Within 20 <i>Starfall.com:</i> Math: Add & Subtract: Subtraction: Within 20 <i>Starfall.com:</i> Math: Add & Subtract: Compose/Decompose</p>

Measurement and Data K.MD

Describe and compare measurable attributes.

West Virginia Standards	Starfall K Math Alignment
<p>M.K.MD.1 Describe measurable attributes of objects, such as length or weight. Describe several measurable attributes of a single object.</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 <i>Starfall.com:</i> Math: Geometry & Measurement: Measurement <i>Starfall.com:</i> Math: Geometry & Measurement: Weight</p>
<p>M.K.MD.2 Directly compare two objects with a measurable attribute in common, to see which object has “more of”/“less of” the attribute, and describe the difference. For example, directly compare the heights of two children and describe one child as taller/shorter.</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 <i>Starfall.com:</i> Math: Geometry & Measurement: Measurement</p>

Classify objects and count the number of objects in each category.

West Virginia Standards	Starfall K Math Alignment
<p>M.K.MD.3 Classify objects into given categories; count the numbers of objects in each category and sort the categories by count. Category counts should be limited to less than or equal to 10.</p>	<p>Teacher’s Guide pp. 36-37 - Explore Shapes Teacher’s Guide pp. 41-42 - Introduce Octagon and Review 2D Shapes Teacher’s Guide pp. 132-133 - Sort By Attribute Teacher’s Guide p. 134 - Learning Centers: Sorting Objects Teacher’s Guide pp. 288-289 - 3-D Shape Museum Day Teacher’s Guide p. 290 - Sorting Shapes Teacher’s Guide p. 624 - Pattern Using Coins Starfall.com: Math: Geometry & Measurement: Button Sort</p>

Geometry K.G

Identify and describe shapes (squares, circles, triangles, rectangles, hexagons, cubes, cones, cylinders, and spheres).

West Virginia Standards	Starfall K Math Alignment
<p>M.K.G.1 Describe objects in the environment using names of shapes, and describe the relative positions of these objects using terms such as <i>above, below, beside, in front of, behind,</i> and <i>next to</i>.</p>	<p>Teacher’s Guide pp.128-129 - Ordinal Numbers Teacher’s Guide pp. 152-153 - Introduce Positional Words Teacher’s Guide p. 160 - Positional Words Teacher’s Guide p. 623 - Position Words</p>
<p>M.K.G.2 Correctly name shapes regardless of their orientations or overall 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>M.K.G.3 Identify shapes as two-dimensional (lying in a plane, “flat”) or three-dimensional (“solid”).</p>	<p>Teacher’s Guide pp. 265-267 - Shape Properties Teacher’s Guide pp. 268-269 - Introduce Cube 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 Starfall.com: Math: Geometry and Measurement: 2D/3D Sort Starfall.com: Math: Geometry and Measurement: 2-D/3D Shapes</p>

Analyze, compare, create, and compose shapes.

West Virginia Standards	Starfall K Math Alignment
<p>M.K.G.4 Analyze and compare two- 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>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 p. 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>M.K.G.5 Model shapes in the world by building shapes from components (e.g., sticks and clay balls) and drawing shapes.</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>
<p>M.K.G.6 Compose simple shapes to form larger shapes. For example, "<i>Can you join these two triangles with full sides touching to make a rectangle?</i>"</p>	<p>Teacher's Guide p. 134 - Computer Center Teacher's Guide pp. 265-266 - Shape Properties Teacher's Guide p. 273 - Cubes and Rectangular Prisms Starfall.com: Math: Geometry and Measurement: Triangles & Make Shapes Starfall.com: Math: Geometry and Measurement: Puzzles</p>

*The standards in this document were copied directly from the *Next Generation Standards and Objectives for Mathematics in West Virginia Schools*.

Standards for Mathematical Practice MP

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.

Standards	Starfall K Math Alignment
<p>MP.1 Make sense of problems and persevere in solving them.</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 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>MP.2 Reason abstractly and quantitatively.</p>	<p>Teacher’s Guide p. 375 - Using Addition Strategies 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 p. 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</p>

	<p>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>Teacher's Guide p. 496 - Measure and Compare Lengths</p> <p>Teacher's Guide p. 497 - Measure Using Craft Sticks</p> <p>Teacher's Guide p. 497 - Measure Using Cubes</p> <p>Teacher's Guide p. 498 - Length of Names</p> <p>Teacher's Guide pp. 499-500 - Shortest to Tallest</p> <p>Teacher's Guide p. 500 - Measure Objects</p> <p>Teacher's Guide p. 502 - Learning Centers: Measure the Objects</p>
<p>MP.3 Construct viable arguments and critique the reasoning of other.</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 Line to Add</p> <p>Teacher's Guide p. 381 - Addition Equation Cards (Counting On)</p> <p>Teacher's Guide pp. 381-382 - Acting It Out</p> <p>Teacher's Guide p. 383 - Drawing Pictures</p> <p>Teacher's Guide p. 384 - Solve Number Stories</p> <p>Teacher's Guide p. 391 - "Five Little Bees"</p> <p>Teacher's Guide p. 391 - Building Addition Number Stories</p> <p>Teacher's Guide p. 392 - Solving For X</p> <p>Teacher's Guide p. 392 - What Number is Missing?</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 pp. 397-398 - Addition With Coins</p> <p>Teacher's Guide p. 400 - Learning Centers: Summative Assessment: Create Addition Problems to 10</p> <p>Teacher's Guide p. 414-415 - Greater Than/Less Than Game Day</p> <p>Teacher's Guide p. 416 - Subtraction as an Operation</p> <p>Teacher's Guide p. 417 - Compare Addition and Subtraction Strategies</p> <p>Teacher's Guide p. 417 - Partner to Solve Subtraction Problems</p> <p>Teacher's Guide pp. 418-419 - Drawing Pictures Strategy</p> <p>Teacher's Guide p. 419 - Read It, Draw It, Solve It Practice</p> <p>Teacher's Guide p. 419 - Represent Subtraction</p> <p>Teacher's Guide pp. 420-421 - "Five Little Teddy Bears" Subtraction</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. 432-433 - Subtraction and Money</p> <p>Teacher's Guide pp. 434-436 - Using a Number Line to Subtract</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 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 using Money Teacher's Guide pp. 473-474 - Addition and Subtraction Story Problems</p>
<p>MP.4 Model with mathematics.</p>	<p>Teacher's Guide p. 375 - Using Addition Strategies 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>MP.5 Use appropriate tools strategically.</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</p>

	<p>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" Teacher's Guide pp. 430-431 - Subtraction Story Problems Teacher's Guide pp. 455-456 - My Answer Is... Teacher's Guide pp. 470-471 - Plus and Minus Teacher's Guide pp. 496-497 - Height and Length Teacher's Guide pp. 508-509 - Measure Distance Teacher's Guide pp. 524-525 - Weighing Objects Teacher's Guide pp. 550-551 - Teens Practice Teacher's Guide p. 567 - Learning Centers: "Count to 50" Number Grid Game Teacher's Guide p. 606 - Learning Centers: Capacity</p>
<p>MP.6 Attend to precision.</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 Teacher's Guide pp. 166-168 - Introduce Money Teacher's Guide pp. 186-188 - Ten-Frame Activities: More and Less Teacher's Guide p. 211 - Formative Assessment: Backpack Bear's Math Workbook, Page 24 Teacher's Guide pp. 226-227 - Introduce 13 Teacher's Guide p. 249 - Learning Center 5: Summative Assessment: Dot-to-Dot (1-20) Teacher's Guide p. 267 - Formative Assessment: Draw Shapes with Shaving Cream Teacher's Guide pp. 288-289 - 3-D Shape Museum Day Teacher's Guide pp. 296-297 - Backpack Bear's Treasure Hunt Teacher's Guide p. 319 - Formative Assessment Make a</p>

	<p>Representation Chart</p> <p>Teacher’s Guide p. 338 - Formative Assessment: Complete Number Sentences</p> <p>Teacher’s Guide p. 350 -Formative Assessment: Create a 10-Chain</p> <p>Teacher’s Guide pp. 377-378 - Using Counters and Ten-Frames</p> <p>Teacher’s Guide pp. 391-392 - Missing Numbers: Building Addition Number Stories; Solving For X; What Number is Missing?</p> <p>Teacher’s Guide pp. 414-415 - Greater Than/Less Than Game Day</p> <p>Teacher’s Guide p. 428-429 - “Little Boy Blue” Story Problems</p> <p>Teacher’s Guide pp. 453-454 - Writing Equations</p> <p>Teacher’s Guide p. 474 - Formative Assessment: Addition and Subtraction Journal Page</p> <p>Teacher’s Guide p. 492 - Formative Assessment: Draw Pictures to Solve Problems</p> <p>Teacher’s Guide p. 514 - Formative Assessment: Use Measuring Tools</p> <p>Teacher’s Guide p. 523 - Record Lighter or Heavier</p> <p>Teacher’s Guide p. 549 - Formative Assessment: Number Representations from 10 to 20</p> <p>Teacher’s Guide p. 566 - Review Numbers and Sets 10 Through 20</p> <p>Teacher’s Guide p. 589 - Formative Assessment: Draw a Clock</p> <p>Teacher’s Guide p. 599 - Formative Assessment: Classify Hot or Cold</p> <p>Teacher’s Guide p. 625 - Formative Assessment: What’s the Operation?</p> <p>Teacher’s Guide pp. 632-633 - Addition and Subtraction</p>
<p>MP.7 Look for and make use of structure.</p>	<p>Teacher’s Guide pp. 212-213 - Introduce Teens Using a Ten-Frame</p> <p>Teacher’s Guide p. 228 - Tens and Ones</p> <p>Teacher’s Guide pp. 342-343 - Introduce 18</p> <p>Teacher’s Guide p. 322 - Directionality of Equations</p> <p>Teacher’s Guide p. 322 - Formative Assessment Creating Equations</p> <p>Teacher’s Guide p. 329 - Summative Assessment: Number Patterns</p> <p>Teacher’s Guide p. 337 - Introduce Number Combinations of 7</p> <p>Teacher’s Guide p. 341 - Formative Assessment: Create Different Combinations of 8</p> <p>Teacher’s Guide p. 342 - Number Patterns of Nine</p> <p>Teacher’s Guide p. 343 - Create Combinations of 9</p> <p>Teacher’s Guide p. 350 - Number Bonds of 10</p> <p>Teacher’s Guide pp. 351-352 - Review Number Bonds</p> <p>Teacher’s Guide p. 354-356 - Arrays up to 20</p> <p>Teacher’s Guide p. 357-359 - Subitizing and Array Review</p> <p>Teacher’s Guide p. 360 - Summative Assessment: Hanger Activity</p> <p>Teacher’s Guide p. 360 - Arrays</p> <p>Teacher’s Guide p. 372 - Formative Assessment: Different Ways</p>

	<p>to Make 5</p> <p>Teacher’s Guide pp. 391-392 - Missing Numbers</p> <p>Teacher’s Guide p. 421 - "Five Little Teddy Bears" Subtraction Story</p> <p>Teacher’s Guide p. 430 - Subtraction Story Problems: Starfall.com</p> <p>Teacher’s Guide pp. 435-436 - Formative Assessment: Train Subtraction</p> <p>Teacher’s Guide p. 453 - Ways to Write an Addition Equation</p> <p>Teacher’s Guide p. 461 - Summative Assessment: Adding and Subtracting Within 5</p> <p>Teacher’s Guide pp. 468-469 - Creating Addition and Subtraction Equations</p> <p>Teacher’s Guide p. 472 - Formative Assessment: Adding and Subtracting using Money</p> <p>Teacher’s Guide p. 547 - Formative Assessment: Add Numbers to Teens</p> <p>Teacher’s Guide p. 548 - Add and Subtract: Compose/Decompose Tens and Ones</p> <p>Teacher’s Guide pp. 620-621 - Composing and Decomposing Numbers 6-10</p> <p>Teacher’s Guide p. 632 - Magic Math Moment: How Many More or Less?</p>
<p>MP.8 Look for and express regularity in repeated reasoning.</p>	<p>Teacher’s Guide p. 215 - Magic Math Moment: Tens and Ones</p> <p>Teacher’s Guide p. 226 - Creating Number Combinations</p> <p>Teacher’s Guide pp. 244-245 - Number Riddles/ Introduce 19</p> <p>Teacher’s Guide pp. 318-319 - Number Representations 1-5</p> <p>Teacher’s Guide pp. 323-324 - Number Representations 6-10</p> <p>Teacher’s Guide pp. 334-335 - Addition to 5</p> <p>Teacher’s Guide pp. 336-338 - Number Combinations of 6 and 7</p> <p>Teacher’s Guide pp. 339-341 - Number Combinations of 8</p> <p>Teacher’s Guide pp. 342-343 - Number Combinations of 9</p> <p>Teacher’s Guide p. 350 - Number Bonds of 10</p> <p>Teacher’s Guide pp. 351-352 - Review Number Bonds</p> <p>Teacher’s Guide pp. 357-358 - Subitizing and Array Review</p> <p>Teacher’s Guide p. 359 - Formative Assessment: Create Arrays</p> <p>Teacher’s Guide p. 360 - Summative Assessment: Hanger Activity</p> <p>Teacher’s Guide p. 378 - Formative Assessment: Different Ways to Make 5</p> <p>Teacher’s Guide p. 384 - "Shake, Spill, and Add"</p> <p>Teacher’s Guide p. 392 - Solving For X</p> <p>Teacher’s Guide p. 400 - Summative Assessment: Create Addition Problems to 10</p> <p>Teacher’s Guide p. 434-435 - Using a Number Line to Subtract</p> <p>Teacher’s Guide pp. 466-467 - Review Addition and Subtraction Facts</p> <p>Teacher’s Guide pp. 490-492 - Introduce Fractions</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 pp. 552-553 - Place Value</p>

	<p>Teacher's Guide p. 566 - Review Numbers and Sets 10 Through 20</p> <p>Teacher's Guide pp. 590-591 - Hands on the Clock</p> <p>Teacher's Guide p. 600 - Magic Math Moment: How Many to Make Ten?</p> <p>Teacher's Guide pp. 620-621 - Composing and Decomposing Numbers 6-10</p> <p>Teacher's Guide p. 622 - Addition Game Day</p> <p>Teacher's Guide p. 624 - Patterns Using Coins</p> <p>Teacher's Guide pp. 624-625 - What's the Operation?</p> <p>Teacher's Guide pp. 632-633 - Addition and Subtraction</p> <p>Teacher's Guide p. 636 - Interpreting a Graph</p>
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Next Generation Standards and Objectives for Mathematics in West Virginia Schools