

Common Core Standards for Mathematics

Content Standards	Mathematical Practices
<p>Operations and Algebraic Thinking CCSS.MATH.CONTENT.2.OA.A: Represent and solve problems involving addition and subtraction. CCSS.MATH.CONTENT.2.OA.B: Add and subtract within 20. CCSS.MATH.CONTENT.2.OA.C: Work with equal groups of objects to gain foundations for multiplication.</p> <p>Number and Operations in Base Ten CCSS.MATH.CONTENT.2.NBT.A: Understand place value. CCSS.MATH.CONTENT.2.NBT.B: Use place value understanding and properties of operations to add and subtract.</p> <p>Measurement and Data CCSS.MATH.CONTENT.2.MD.A: Measure and estimate lengths in standard units. CCSS.MATH.CONTENT.2.MD.B: Relate addition and subtraction to length. CCSS.MATH.CONTENT.2.MD.C: Work with time and money. CCSS.MATH.CONTENT.2.MD.D: Represent and interpret data.</p> <p>Geometry CCSS.MATH.CONTENT.2.G.A: Reason with shapes and their attributes.</p>	<p>CCSS.MATH.PRACTICE.MP1: Make sense of problems and persevere in solving them.</p> <p>CCSS.MATH.PRACTICE.MP2: Reason abstractly and quantitatively.</p> <p>CCSS.MATH.PRACTICE.MP3: Construct viable arguments and critique the reasoning of others.</p> <p>CCSS.MATH.PRACTICE.MP4: Model with mathematics.</p> <p>CCSS.MATH.PRACTICE.MP5: Use appropriate tools strategically.</p> <p>CCSS.MATH.PRACTICE.MP6: Attend to precision.</p> <p>CCSS.MATH.PRACTICE.MP7: Look for and make use of structure.</p> <p>CCSS.MATH.PRACTICE.MP8: Look for and express regularity in repeated reasoning.</p> <p>* Mathematical Practices are incorporated within all units.</p>

Technology

Elmo, SMART Board, Reflex, ConnectED

Standards	Essential Questions	Content	Skills	Assessment	Resources
<p>Addition and Subtraction: within 20 CCSS.MATH.CONTENT.2.OA.A CCSS.MATH.CONTENT.2.OA.B</p>	<p>Addition and Subtraction: within 20 What strategies are used to add and subtract?</p>	<p>Addition and Subtraction: within 20 -Strategies: number line, doubles, doubles plus one, fact families, make ten, count on, count back, magic nine -Single digit -Commutative Property -Identity Property</p>	<p>Addition and Subtraction: within 20 -Add and subtract single digit numbers to 20 -Use strategies to add and subtract -Add three numbers -Write a number sentence to solve problems -Solve two step word problems</p>	<p>Addition and Subtraction: within 20 -Teacher observations -Test</p>	<p>Addition and Subtraction: within 20 -<i>My Math</i> by McGraw-Hill (2018)</p>

Mathematics 2nd Grade

Standards	Essential Questions	Content	Skills	Assessment	Resources
<p>Number Sense CCSS.MATH.CONTENT.2.OA.C</p>	<p>Number Sense How can equal groups help when adding?</p>	<p>Number Sense -Skip count on hundreds chart by 2s, 5s, 10s, and 100s -Repeated addition -Arrays -Even and odd numbers -Sums of equal numbers</p>	<p>Number Sense -Determine whether a number is even or odd -Use patterns to skip count starting at any number -Used repeated addition to add equal groups -Use arrays for repeated addition -Find a pattern to solve problems</p>	<p>Number Sense -Teacher observations -Test</p>	<p>Number Sense -<i>My Math</i> by McGraw-Hill (2018)</p>
<p>Addition and Subtraction: within 100 CCSS.MATH.CONTENT.2.NBT.B</p>	<p>Addition and Subtraction: within 100 How can two-digit numbers be added and subtracted?</p>	<p>Addition and Subtraction: within 100 -Regrouping -Two-digit numbers -Rewrite problems vertically -Addition and subtraction relationship -Manipulatives, drawings and numerical</p>	<p>Addition and Subtraction: within 100 -Use regrouping to solve addition and subtraction problems -Rewrite addition and subtraction problems presented horizontally -Use addition to check subtraction -Use manipulatives or drawings to solve a problem -Transition from manipulatives, to representational drawings, to number representations to solve a problem -Write a number sentence to solve problems -Solve two step word problems</p>	<p>Addition and Subtraction: within 100 -Teacher observations -Test</p>	<p>Addition and Subtraction: within 100 -<i>My Math</i> by McGraw-Hill (2018)</p>

Mathematics 2nd Grade

Standards	Essential Questions	Content	Skills	Assessment	Resources
<p>Place Value: to 1000 CCSS.MATH.CONTENT.2.NBT.A</p>	<p>Place Value: to 1000 How is place value used?</p>	<p>Place Value: to 1000 -Skip count by 5s, 10s, and 100s -Model 1s, 10s, and 100s -Compare -Standard form -Expanded form -Word form</p>	<p>Place Value: to 1000 -Read, write and model numbers to 999 -Compare numbers to 1000 -Use greater than, less than, and equal to symbols -Identify and use words, models, and expanded form to represent numbers to 999 -Read and solve word problems</p>	<p>Place Value: to 1000 -Teacher observations -Test</p>	<p>Place Value: to 1000 -<i>My Math</i> by McGraw-Hill (2018)</p>
<p>Addition and Subtraction: within 1000 CCSS.MATH.CONTENT.2.NBT.B</p>	<p>Addition and Subtraction: within 1000 How can three-digit numbers be added and subtracted?</p>	<p>Addition and Subtraction: within 1000 -Mental math -Regrouping -Three-digit numbers -Rewrite problems vertically -Addition and subtraction relationship -Subtract across zeros -Manipulatives, drawings and numerical</p>	<p>Addition and Subtraction: within 1000 -Use regrouping to solve addition and subtraction problems -Mentally add and subtract 10s and 100s -Rewrite addition and subtraction problems presented horizontally -Use addition to check subtraction -Use manipulatives or drawings to solve a problem -Transition from manipulatives, to representational drawings, to number representations to solve a problem -Write a number sentence to solve problems</p>	<p>Addition and Subtraction: within 1000 -Teacher observations -Test</p>	<p>Addition and Subtraction: within 1000 -<i>My Math</i> by McGraw-Hill (2018)</p>

Mathematics 2nd Grade

Standards	Essential Questions	Content	Skills	Assessment	Resources
Measurement: money CCSS.MATH.CONTENT.2.MD.C	Measurement: money How is money counted and used?	Measurement: money -Penny, nickel, dime, and quarter -Dollar bills -Adding groups of coins	Measurement: money -Identify coins and bills -Write amounts using dollar and cent signs -Add groups of coins using skip counting -Solve word problems involving money	Measurement: money -Teacher observations -Test	Measurement: money - <i>My Math</i> by McGraw-Hill (2018)
Measurement: time CCSS.MATH.CONTENT.2.MD.C	Measurement: time How is time used and written?	Measurement: time -Time to the hour -Time to the half hour -Time to the five minutes -Time to the quarter hour -Analog and digital -AM and PM	Measurement: time -Tell and write time to the nearest hour, half hour, five minutes, and quarter hour -Distinguish between analog and digital -Use AM and PM when telling and writing time -Solve word problems involving time	Measurement: time -Teacher observations -Test	Measurement: time - <i>My Math</i> by McGraw-Hill (2018)
Measurement: customary and metric units CCSS.MATH.CONTENT.2.MD.A CCSS.MATH.CONTENT.2.MD.B CCSS.MATH.CONTENT.2.MD.D	Measurement: customary and metric units How are objects measured?	Measurement: customary and metric units Customary: -Inches -Half inches -Feet -Yards Metric: -Centimeters -Meters -Measuring tools: rulers, yard sticks, and tape measure -Estimation -Compare	Measurement: customary and metric units -Measure objects using customary and metric units -Choose the appropriate tool to measure objects -Label measurements with correct units -Use measurement to compare lengths -Estimate length of an object and check with a tool -Solve word problems using measurement	Measurement: customary and metric units -Teacher observations -Test	Measurement: customary and metric units - <i>My Math</i> by McGraw-Hill (2018)

Mathematics 2nd Grade

Standards	Essential Questions	Content	Skills	Assessment	Resources
Data Analysis CCSS.MATH.CONTENT.2.MD.D	Data Analysis How is data recorded and analyzed?	Data Analysis -Surveys -Picture Graphs -Bar Graphs -Line Plots	Data Analysis -Take a survey and organize the data using tally marks -Use data to create and analyze graphs and line plots -Draw conclusions and answer questions based on graphs and line plots	Data Analysis -Teacher observations -Test	Data Analysis - <i>My Math</i> by McGraw-Hill (2018)
Geometry CCSS.MATH.CONTENT.2.G.A	Geometry How are shapes described and analyzed?	Geometry -Two-dimensional shapes: triangle, quadrilaterals, pentagons, hexagons -Three-dimensional shapes: cubes -Sides -Angles -Faces -Edges -Vertices -Shapes and solids -Partitioning: halves, thirds and fourths -Area	Geometry -Identify two and three-dimensional shapes -Recognize attributes of two-dimensional shapes -Describe the faces, edges, and vertices of three-dimensional shapes -Partition two dimensional shapes into halves, thirds, and fourths -Determine the area of a rectangle	Geometry -Teacher observations -Test	Geometry - <i>My Math</i> by McGraw-Hill (2018)