

# 2<sup>nd</sup> Grade Scope and Sequence

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# Common Core 2<sup>nd</sup> Grade Descriptors

## Common Core Instructional Focus

In 2<sup>nd</sup> Grade, instructional time should focus on four critical areas:

**Place value:** extending understanding of base-ten notation;

**Number:** building fluency with addition and subtraction;

**Measurement:** using standard units of measure; and

**Geometry:** describing and analyzing shapes.

### Place Value

Students extend their understanding of the base-ten system. This includes ideas of counting in fives, tens, and multiples of hundreds, tens, and ones, as well as number relationships involving these units, including comparing. Students understand multi-digit numbers (up to 1,000) written in base-ten notation, recognizing that the digits in each place represent amounts of thousands, hundreds, tens, or ones (e.g., 853 is 8 hundreds + 5 tens + 3 ones).

### Number and Algebraic Thinking

Students use their understanding of addition to develop fluency with addition and subtraction within 100. They solve problems within 1,000 by applying their understanding of models for addition and subtraction, and they develop, discuss, and use efficient, accurate, and generalizable methods to compute sums and differences of whole numbers in base-ten notation, using their understanding of place value and the properties of operations. They select and accurately apply methods that are appropriate for the context and the numbers involved to mentally calculate sums and differences for numbers with only tens or only hundreds.

### Measurement

Students recognize the need for standard units of measure (centimeter and inch) and they use rulers and other measurement tools with the understanding that linear measure involves an iteration of units. They recognize that the smaller the unit, the more iterations they need to cover a given length.

### Shape and Space


Students describe and analyze shapes by examining their sides and angles. Students investigate, describe, and reason about decomposing and combining shapes to make other shapes. Through building, drawing, and analyzing two- and three-dimensional shapes, students develop a foundation for understanding area, volume, congruence, similarity, and symmetry in later grades.

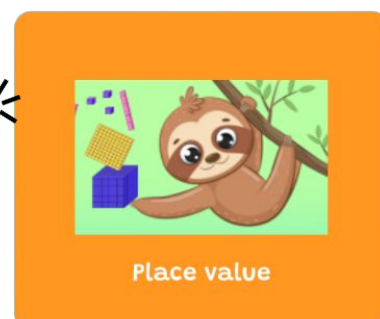
# 2<sup>nd</sup> Grade Overview

Place Value	Addition & Subtraction	Multiplication & Division
<p>Understand place value.</p> <p>(2.NBT.A.1)</p> <p>(2.NBT.A.3)</p> <p>(2.NBT.A.4)</p>	<p>Use place value understanding and properties of operations to add and subtract.</p> <p>Represent and solve problems involving addition and subtraction.</p> <p>Add and subtract within 20.</p> <p>(2.OA.B.2)      (2.NBT.C.7)</p> <p>(2.MD.B.6)      (2.NBT.C.8)</p> <p>(2.NBT.C.5)      (2.NBT.C.9)</p> <p>(2.NBT.C.6)      (2.OA.A.1)</p>	<p>Work with equal groups of objects to gain foundations for multiplication.</p> <p>(2.OA.C.3)</p> <p>(2.OA.C.4)</p> <p>(2.NBT.A.2)</p>

Measurement	Shape and Space	Data Handling	Money and Time
<p>Measure and estimate lengths in standard units.</p> <p>Relate addition and subtraction to length.</p> <p>(2.MD.A.1)</p> <p>(2.MD.A.2)</p> <p>(2.MD.A.3)</p> <p>(2.MD.A.4)</p> <p>(2.MD.B.5)</p>	<p>Reason with shapes and their attributes.</p> <p>(2.G.A.1)</p> <p>(2.G.A.2)</p> <p>(2.G.A.3)</p>	<p>Represent and interpret data.</p> <p>(2.MD.D.9)</p> <p>(2.MD.D.10)</p>	<p>Work with time and money.</p> <p>(2.MD.C.7)</p>

# Place Value

Common Core Learning Standards	Awesomenicity Lessons
<p>Understand that the three digits of a three-digit number represent amounts of hundreds, tens, and ones; e.g., 605 equals 6 hundreds, 0 tens, and 5 ones. (2.NBT.A.1)</p> <p>Read and write numbers to 1,000 using base-ten numerals, number names, and expanded form. (2.NBT.A.3)</p> <p>Compare two three-digit numbers based on meanings of the hundreds, tens, and ones digits, using <math>&gt;</math>, <math>=</math>, and <math>&lt;</math> symbols to record the results of comparisons. (2.NBT.A.4)</p>	 <p><u>Lesson 1: Using place value in large numbers</u></p> <p><u>Lesson 2: Writing numbers in expanded form (partitioning)</u></p> <p><u>Lesson 3: Apply understanding of expanded numbers</u></p> <p><u>Lesson 4: Comparing numbers</u></p> <p><u>Lesson 5: Ordering numbers</u></p> <p><u>Lesson 6: Create and compare numbers</u></p> <p><u>Lesson 7: Writing numbers in written form</u></p> <p><u>Lesson 8: Consolidating writing numbers in written form</u></p> <p><u>Lesson 9: Construct numbers: Applying place value knowledge</u></p>
<p><b>Additional place value related lessons that could be explored in 2<sup>nd</sup> Grade.</b></p> <p><i>*Note, regrouping is used in addition and subtraction strategies in the future and is an important skill that shows applied knowledge of place value. Hence, we have included it in place value.</i></p>	<p><u>Lesson 10: Introduction to regrouping</u></p> <p><u>Lesson 11: Apply regrouping knowledge</u></p> <p><u>Lesson 12: Rounding numbers to the nearest ten</u></p> <p><u>Lesson 13: Apply rounding to the nearest ten skills</u></p> <p><u>Lesson 14: Rounding numbers to the nearest hundred</u></p> <p><u>Lesson 15: Apply rounding to the nearest 100 skills</u></p>
<p>Consolidation and assessment.</p>	<p><u>Lesson 16: Solve Place Value Puzzles</u></p> <p><u>Lesson 17: Place Value Assessment</u></p>




# Addition

Common Core Learning Standards	Awesomenicity Lessons
<p>Fluently add and subtract within 20 using mental strategies. By the end of 2<sup>nd</sup> Grade, know from memory all sums of two one-digit numbers. (2.OA.B.2)</p> <p>Fluently add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction. (2.NBT.C.5)</p> <p>Add and subtract within 1,000, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method. Understand that in adding or subtracting three-digit numbers, one adds or subtracts hundreds and hundreds, tens and tens, ones and ones; and sometimes it is necessary to compose or decompose tens or hundreds. (2.NBT.C.7)</p> <p>Mentally add 10 or 100 to a given number 100-900, and mentally subtract 10 or 100 from a given number 100-900. (2.NBT.C.8)</p> <p>Represent whole numbers as lengths from 0 on a number line diagram with equally spaced points corresponding to the numbers 0, 1, 2, ..., and represent whole-number sums and differences within 100 on a number line diagram. (2.MD.B.6)</p>	 <p><u>Lesson 1: Identifying number bonds</u></p> <p><u>Lesson 2: Finding the next multiple of ten</u></p> <p><u>Lesson 3: Introduction to bridging to the next ten strategy</u></p> <p><u>Lesson 4: Applying bridging to the next ten strategy</u></p> <p><u>Lesson 5: Using doubles and near doubles</u></p> <p><u>Lesson 6: Introduction to jump strategy</u></p> <p><u>Lesson 7: Explore Split Strategy</u></p> <p><u>Lesson 8: Using rounding to problem-solve</u></p> <p><u>Lesson 9: Adding like digits</u></p> <p><u>Lesson 10: Adding like digits up to hundreds</u></p>
<p>Explain why addition and subtraction strategies work, using place value and the properties of operations. (2.NBT.C.9)</p> <p>Add up to four two-digit numbers using strategies based on place value and properties of operations. (2.NBT.C.6)</p>	<p><u>Lesson 11: Column method with regrouping</u></p> <p><u>Lesson 12: Using column addition to problem-solve</u></p> <p><u>Lesson 13: Consolidating column method with regrouping</u></p>
<p>Use addition and subtraction within 100 to solve one- and two-step word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem. (2.OA.A.1)</p>	<p><u>Lesson 14: Solving addition word problems</u></p>
<p>Consolidation and assessment.</p>	<p><u>Lesson 15: Consolidating addition strategies</u></p> <p><u>Lesson 16: Addition Assessment</u></p>



Addition


# Subtraction

Common Core Learning Standards	Awesomenicity Lessons
<p>Fluently add and subtract within 20 using mental strategies. By the end of 2<sup>nd</sup> Grade, know from memory all sums of two one-digit numbers. (2.OA.B.2)</p> <p>Fluently add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction. (2.NBT.C.5)</p> <p>Mentally add 10 or 100 to a given number 100-900, and mentally subtract 10 or 100 from a given number 100-900. (2.NBT.C.8)</p> <p>Represent whole numbers as lengths from 0 on a number line diagram with equally spaced points corresponding to the numbers 0, 1, 2, ..., and represent whole-number sums and differences within 100 on a number line diagram. (2.MD.B.6)</p>	 <p><u>Lesson 1: Subtracting within 10</u></p> <p><u>Lesson 2: Adding and subtracting 1, 10 and 100</u></p> <p><u>Lesson 3: Use counting on to subtract</u></p> <p><u>Lesson 4: Bridging down to the next ten</u></p> <p><u>Lesson 5: Using patterns to subtract</u></p> <p><u>Lesson 6: Exploring related facts</u></p> <p><u>Lesson 7: Using jump &amp; split strategy to subtract</u></p> <p><u>Lesson 8: Applying split/jump strategy to subtract</u></p>
<p>Add and subtract within 1,000 using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method. Understand that in adding or subtracting three-digit numbers, one adds or subtracts hundreds and hundreds, tens and tens, ones and ones; and sometimes it is necessary to compose or decompose tens or hundreds. (2.NBT.C.7)</p>	<p><u>Lesson 9: Use column method to subtract</u></p> <p><u>Lesson 10: Subtracting up to 3-digit numbers</u></p>
<p>Use addition and subtraction within 100 to solve one- and two-step word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem. (2.OA.A.1)</p>	<p><u>Lesson 11: Solving word problems</u></p> <p><u>Lesson 12: Using flexible numbers and regrouping</u></p>
<p>Explain why addition and subtraction strategies work, using place value and the properties of operations. (2.NBT.C.9)</p> <p>Add up to four two-digit numbers using strategies based on place value and properties of operations. (2.NBT.C.6)</p>	<p><u>Lesson 13: Apply subtraction strategies to problem-solve</u></p>
<p>Consolidation and assessment.</p>	<p><u>Lesson 14: Subtraction Assessment</u></p>



Subtraction

# Multiplication & Division

Common Core Learning Standards	Awesomenicity Lessons
<p>Determine whether a group of objects (up to 20) has an odd or even number of members, e.g., by pairing objects or counting them by 2s; write an equation to express an even number as a sum of two equal addends. (2.OA.C.3)</p> <p>Use addition to find the total number of objects arranged in rectangular arrays with up to five rows and up to five columns; write an equation to express the total as a sum of equal addends. (2.OA.C.4)</p> <p>Count within 1,000; skip-count by 5s, 10s, and 100s. (2.NBT.A.2)</p>	<p><b>Multiplication</b> </p> <p><u><a href="#">Lesson 1: Introduction to equal groups</a></u>  <u><a href="#">Lesson 2: Introduction to skip counting to multiply</a></u>  <u><a href="#">Lesson 3: Applying skip counting to multiply</a></u>  <u><a href="#">Lesson 4: Introduction to using arrays to multiply</a></u>  <u><a href="#">Lesson 5: Using arrays to show multiplication</a></u>  <u><a href="#">Lesson 6: Multiplying by 1 and 0</a></u>  <u><a href="#">Lesson 7: Multiplying by 2</a></u>  <u><a href="#">Lesson 8: Multiplying by 10</a></u>  <u><a href="#">Lesson 9: Multiplying by 5</a></u></p> <p><b>Division</b></p> <p><u><a href="#">Lesson 1: Sharing in equal groups</a></u>  <u><a href="#">Lesson 2: Using picture dots to divide</a></u>  <u><a href="#">Lesson 3: Using skip counting and grouping to divide</a></u>  <u><a href="#">Lesson 4: Applying grouping/skip counting to divide</a></u></p>
<p><b>Additional multiplication lessons that could be explored in 2<sup>nd</sup> Grade, but are not explicitly addressed in the Common Core curriculum.</b></p> <div data-bbox="194 1048 568 1303" data-label="Image"> </div>	<p><u><a href="#">Lesson 10: Multiplying by 3</a></u>  <u><a href="#">Lesson 11: Multiplying by 4</a></u>  <u><a href="#">Lesson 12: Multiplying by 8</a></u>  <u><a href="#">Lesson 13: Solve multiplication word problems</a></u>  <u><a href="#">Lesson 14: Applying multiplication to calculate the area of rectangles</a></u>  <u><a href="#">Lesson 15: Multiplying 2-digit numbers by 1-digit numbers</a></u>  <u><a href="#">Lesson 16: Creating and solving 2-digit multiplication problems</a></u></p>
<p><b>Additional division lessons that could be explored in 2<sup>nd</sup> Grade, but are not explicitly addressed in the Common Core curriculum.</b></p> <div data-bbox="194 1509 568 1765" data-label="Image"> </div>	<p><u><a href="#">Lesson 5: Introduction to division vocabulary</a></u>  <u><a href="#">Lesson 6: Identify and explore remainders</a></u>  <u><a href="#">Lesson 7: Investigating divisibility and identifying patterns</a></u>  <u><a href="#">Lesson 8: Introduction to inverse operations</a></u>  <u><a href="#">Lesson 9: Applying inverse operations</a></u>  <u><a href="#">Lesson 10: Introduction to place value dot division</a></u>  <u><a href="#">Lesson 11: Problem-solving with place value dot division</a></u>  <u><a href="#">Lesson 12: Problem solving using division and other operations</a></u>  <u><a href="#">Lesson 13: Solving division word problems</a></u>  <u><a href="#">Lesson 14: Using division questions to problem-solve</a></u>  <u><a href="#">Lesson 15: Division Assessment</a></u></p>
<p>Consolidation and assessment.</p>	<p><u><a href="#">Lesson 17: Multiplication Assessment</a></u></p>

# Measurement

Common Core Learning Standards	Awesomenicity Lessons
<p>Measure the length of an object by selecting and using appropriate tools such as rulers, yardsticks, meter sticks, and measuring tapes. (2.MD.A.1)</p> <p>Estimate lengths using units of inches, feet, centimeters, and meters. (2.MD.A.3)</p>	 <p><u><a href="#">Lesson 1: Exploring non-standard units (distance)</a></u> <u><a href="#">Lesson 2: Exploring standard units of measurement</a></u> <u><a href="#">Lesson 3: Measuring length with accuracy</a></u></p>
<p>Measure the length of an object twice, using length units of different lengths for the two measurements; describe how the two measurements relate to the size of the unit chosen. (2.MD.A.2)</p> <p>Use addition and subtraction within 100 to solve word problems involving lengths that are given in the same units, e.g., by using drawings (such as drawings of rulers) and equations with a symbol for the unknown number to represent the problem. (2.MD.B.5)</p>	<p><u><a href="#">Lesson 4: Comparing measurements in cm and m</a></u> <u><a href="#">Lesson 5: Adding and subtracting measurements</a></u> <u><a href="#">Lesson 6: Estimate, measure and compare distance</a></u></p>
<p>Consolidation and assessment.</p>	<p><u><a href="#">Lesson 7: Measurement Olympics!</a></u> <u><a href="#">Lesson 8: US Measurement Assessment</a></u></p>



# Shape and Space

## Common Core Learning Standards


## Awesomenicity Lessons

Recognize and draw shapes having specified attributes, such as a given number of angles or a given number of equal faces. Identify triangles, quadrilaterals, pentagons, hexagons, and cubes. (2.G.A.1)

Partition a rectangle into rows and columns of same-size squares and count to find the total number of them. (2.G.A.2)

Partition circles and rectangles into two, three, or four equal shares, describe the shares using the words halves, thirds, half of, a third of, etc., and describe the whole as two halves, three thirds, four fourths. Recognize that equal shares of identical wholes need not have the same shape. (2.G.A.3)

Consolidation and assessment.


- 
- [Lesson 1: Exploring compass directions](#)
  - [Lesson 2: Introduction to position and turns](#)
  - [Lesson 3: Introduction to angles](#)
  - [Lesson 4: Introduction to lines](#)
  - [Lesson 5: Identifying 2D shapes](#)
  - [Lesson 6: Creating 2D shapes](#)
  - [Lesson 7: Identifying lines of symmetry](#)
  - [Lesson 8: Exploring 3D shapes](#)
  - [Lesson 9: Constructing 3D shapes](#)
  - [Lesson 10: Consolidating shape knowledge](#)

[Lesson 11: Shape and Space Assessment](#)



Shape and space


# Statistics and Data Handling

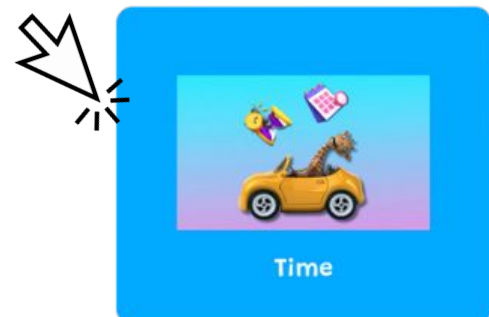
Common Core Learning Standards	Awesomenicity Lessons
<p>Generate measurement data by measuring lengths of several objects to the nearest whole unit, or by making repeated measurements of the same object. Show the measurements by making a line plot, where the horizontal scale is marked off in whole-number units. (2.MD.D.9)</p> <p>Draw a picture graph and a bar graph (with single-unit scale) to represent a data set with up to four categories. Solve simple put-together, take-apart, and compare problems using the information presented in a bar graph. (2.MD.D.10)</p>	 <p><u><a href="#">Lesson 1: Exploring compass directions</a></u> <u><a href="#">Lesson 2: Introduction to position and turns</a></u> <u><a href="#">Lesson 3: Introduction to angles</a></u> <u><a href="#">Lesson 4: Introduction to lines</a></u> <u><a href="#">Lesson 5: Identifying 2D shapes</a></u> <u><a href="#">Lesson 6: Creating 2D shapes</a></u></p>
<p>Describe possible everyday events and order their chances of occurring.</p> <p>Conduct chance experiments, identify and describe possible outcomes and recognise variation in results.</p> <p><i>*Note, these outcomes are not explicitly stated in the curriculum. Feel free to disregard these lessons if necessary. If these lessons are not taught, avoid printing question 9 on page 7 of the assessment printables as it pertains to these objectives.</i></p>	<p><u><a href="#">Lesson 7: Identifying lines of symmetry</a></u> <u><a href="#">Lesson 8: Exploring 3D shapes</a></u> <u><a href="#">Lesson 9: Constructing 3D shapes</a></u></p>
<p>Consolidation and assessment.</p>	<p><u><a href="#">Lesson 10: Consolidating shape knowledge</a></u> <u><a href="#">Lesson 11: Shape and Space Assessment</a></u></p>



Data and probability

# Time

Common Core Learning Standards	Awesomenicity Lessons
<p>Tell and write time from analog and digital clocks to the nearest five minutes, using a.m. and p.m. (2.MD.C.7)</p>	 <p><u>Lesson 1: Reading time (half and quarter time)</u> <u>Lesson 2: Creating and using time (to the nearest minute)</u> <u>Lesson 3: Reading 24 hour time</u> <u>Lesson 4: Exploring seconds, minutes, hours</u> <u>Lesson 5: Exploring days, weeks and months</u> <u>Lesson 6: Calculating elapsed time</u></p>
<p>Consolidation and assessment.</p>	<p><u>Lesson 7: Summative assessment</u></p>



# Money

## Common Core Learning Standards

## Awesomenicity Lessons



Solve word problems involving dollar bills, quarters, dimes, nickels, and pennies, using \$ and ¢ symbols appropriately.  
Example: If you have 3 dimes and 4 pennies, how many cents do you have?  
(2.MD.C.8)

[Lesson 1: Introduction to money \(coins\)](#)

[Lesson 2: Converting dollars and cents](#)

[Lesson 3: Adding money](#)

[Lesson 4: Subtracting Money](#)

[Lesson 5: Adding and subtracting money](#)

[Lesson 6: Summative Assessment](#)

Consolidation and assessment.

[Lesson 7: Summative assessment](#)



US Money

# 2<sup>nd</sup> Grade Checklist

## Operations and Algebraic Thinking

Objective	<input checked="" type="checkbox"/>
Represent and solve problems involving addition and subtraction.	
Add and subtract within 20.	
Work with equal groups of objects to gain foundations for multiplication.	
Understand place value.	
Use place value understanding and properties of operations to add and subtract.	

## Geometry

Objective	<input checked="" type="checkbox"/>
Reason with shapes and their attributes.	

## Number and Operations in Base Ten

Objective	<input checked="" type="checkbox"/>
Understand place value.	
Use place value understanding and properties of operations to add and subtract.	

## Measurement and Data

Objective	<input checked="" type="checkbox"/>
Measure and estimate lengths in standard units	
Relate addition and subtraction to length.	
Work with time and money	
Represent and interpret data.	



# Wave goodbye to maths anxiety

Every primary age child  
deserves to feel **good**  
about maths

**awesomenicity**

