

## 2024-2025 Grade 2 Accomack County Public Schools Mathematics Pacing Guide

- The ACPS Math Pacing Guide, HMHCo. GO MATH (ACPS core math program), and the VDOE curriculum framework are used in planning instruction.
- Spiral Review (Daily for 5-10mins.)

### First Nine Weeks

Weeks	Standards of Learning	Notes
Week 1	Review First Grade Skills	Counting by ones, skip counting, calendar, ordinal numbers
Week 2	Review First Grade Skills: Review addition and subtraction facts within 20	
Week 3	<p>2.PFA.1 The student will describe, extend, create, and transfer growing (increasing) patterns using various representations.</p> <ul style="list-style-type: none"> <li>a) Identify and describe repeating and increasing patterns.</li> <li>b) Analyze a repeating or increasing pattern and generalize the change to extend the pattern using objects, pictures, and numbers.</li> <li>c) Create repeating and increasing patterns using various representations (e.g., objects, pictures, numbers).</li> <li>d) Transfer a given repeating or increasing pattern from one form to another (e.g., objects, pictures, numbers), and explain the connection between the two pattern</li> </ul>	Patterns: Use Virginia Standards of Learning Success
Week 4-5	<p>2.NS 1 The student will utilize flexible counting strategies to determine and describe quantities up to 200.</p> <p>*New Skills* Starting at various multiples up to 200 Represent forward counting patterns when counting by groups of 100 up to at least 1,000.</p> <ul style="list-style-type: none"> <li>a) Represent forward counting patterns when counting by groups of 2 up to at least 50, starting at various multiples of 2 and using a variety of tools (e.g., objects, number lines, hundreds charts).</li> <li>b) Represent forward counting patterns created when counting by groups of 5s, 10s, and 25s starting at various multiples up to at least 200 using a variety of tools (e.g., objects, number lines, hundreds charts).</li> <li>c) Describe and use patterns in skip counting by multiples of 2 (to at least 50), and multiples of 5, 10, and 25 (to at least 200) to justify the next number in the counting sequence.</li> <li>e) Represent backward counting patterns when</li> </ul>	Skip Counting

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	counting by groups of 10 from 200 or less using a variety of tools including objects, number lines, calculators, and hundreds charts. f) Describe and use patterns in skip counting backwards by 10s (from at least 200) to justify the next number in the counting sequence	
Week 6	2.NS.1 The student will utilize flexible counting strategies to determine and describe quantities up to 200. d) represent forward counting patterns when counting by groups of 100 up to at least 1,000 starting at 0 using a variety of tools (i.e., objects, number lines, calculators, and one thousand charts, etc.) h) represent even numbers (up to 50) with concrete objects, using two equal groups or two equal addends i) represent odd numbers (up to 50) with concrete objects, using two equal groups with one leftover or two equal addends plus 1. j) determine whether a number (up to 50) is even or odd using concrete objects and justify reasoning.	Evens/Odds: Workbook
Week 7-8	2.NS.2 The student will demonstrate an understanding of the ten-to-one relationships of the base 10 number system to represent, compare, and order whole numbers up to 999. a) Read three-digit numbers when shown a numeral, a concrete or pictorial representation of the number. b) Apply patterns within the base 10 system to determine and communicate, orally and in written form, the place (ones, tens, hundreds) and value of each digit in a three-digit whole number (e.g., in 352, the 5 represents 5 tens and its value is 50) c) Apply patterns within the base 10 system to determine and communicate, orally and in written form, the place (ones, tens, hundreds) and value of each digit in a three-digit whole number. d) Investigate and explain the ten-to-one relationships among ones, tens, and hundreds, using models.	Place Value: GO Math Workbook
Week 9	2.NS.2 The student will demonstrate an understanding of the ten-to-one relationships of the base 10 number system to represent, compare, and order whole numbers up to 999. e) Compose and decompose whole numbers up to 200 by making connections between a variety of models (e.g., base 10 blocks, place value cards,	Place Value: GO Math Workbook

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	presented orally, in expanded or standard form) and counting strategies (e.g., 156 can be 1 hundred, 5 tens, 6 ones; 1 hundred, 4 tens, 16 ones, 15 tens, 6 ones)	
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	Second 9 Weeks	
Week 10	<p>2.NS.2 The student will demonstrate an understanding of the ten-to-one relationships of the base 10 number system to represent, compare, and order whole numbers up to 999.</p> <p>f) Plot and justify the position of a given number up to 100 on a number line with pre-marked benchmarks of 1s, 2s, 5s, 10s, or 25s</p> <p>g) Compare two whole numbers, each 999 or less, represented concretely, pictorially, or symbolically, using words (greater, than, less than, or equal to) and symbols (<math>&gt;</math>, <math>&lt;</math>, or <math>=</math>). Justify reasoning orally, in writing, or with a model.</p> <p>h) Order up to three whole numbers, each 999 or less, represented concretely, pictorially, or symbolically from least to greatest and greatest to least.</p>	Compare and Order Numbers
Week 11	<p>2.CE.1 The student will recall with automaticity addition and subtraction facts within 20 and estimate, represent, solve, and justify solutions to single-step and multistep problems, including those in context, using addition and subtraction with whole numbers where addends or minuends do not exceed 100.</p> <p>d) Demonstrate fluency with addition and subtraction within 20 by applying reasoning strategies (e.g., doubles, near doubles, make-a-ten, compensations, inverse relationships)</p> <p>e) recall with automaticity addition and subtraction facts within 20.</p>	<p>Addition/Subtraction Facts</p> <p>Addition/Subtraction Strategies</p>
Week 12-13	2.CE.1 The student will recall with automaticity addition and subtraction facts within 20 and estimate, represent, solve, and justify solutions to single-step and multistep problems, including those in context, using addition and subtraction with whole numbers where addends or	<p>Fact Families</p> <p>Equality</p> <p>Missing Addends</p>

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	<p>minuends do not exceed 100.</p> <p>f) Use patterns, models, and strategies to make generalizations about the algebraic properties for fluency (e.g., <math>4+3</math> is equal to <math>3+4</math>; <math>0+8=8</math>).</p> <p>g) Determine the missing number in an equation (number sentence) through modeling and justification with addition and subtraction within 20.</p> <p>h) Use inverse relationships to write all related facts connected to a given addition or subtraction fact model within 20 (e.g., given a model for <math>3+4=7</math>, write <math>+3=7</math>, <math>7-4=3</math>, and <math>7-3=4</math>).</p> <p>i) Describe the not equal symbol (<math>\neq</math>) as representing a relationship where expressions on either side of the not equal symbol represent different values and justify reasoning.</p> <p>j) Represent and justify the relationship between values and expressions as equal or not equal using appropriate models and or symbols (e.g. <math>9+24=10+23</math>; <math>45-9=46-10</math>; <math>15+16 \neq 31+15</math>)</p>	
Week 14	<p>2.CE.1 The student will recall with automaticity addition and subtraction facts within 20 and estimate, represent, solve, and justify solutions to single-step and multistep problems, including those in context, using addition and subtraction with whole numbers where addends or minuends do not exceed 100.</p> <p>a) Apply strategies, (e.g., rounding to the nearest 10, compatible numbers, other number relationships), to estimate a solution for single-step addition or subtraction problems, including those in context, where addends and minuends do not exceed 100.</p>	Rounding
Week 15	<p>2.NS.1 The student will utilize flexible counting strategies to determine and describe quantities up to 200.</p> <p>g) Choose a reasonable estimate up to 1,000 when given a contextual problem (e.g., What would be the best estimate for the number of students in our school – 5, 50, or 500?).</p>	Estimating

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Week 16-17	<p>2.CE.1 The student will recall with automaticity addition and subtraction facts within 20 and estimate, represent, solve, and justify solutions to single-step and multistep problems, including those in context, using addition and subtraction with whole numbers where addends or minuends do not exceed 100.</p> <p>b) Apply strategies, (e.g., the use of concrete and pictorial models, place value, properties of addition, the relationship between addition and subtraction) to determine the sum or difference of two whole numbers where addends or minuends do not exceed 100.</p> <p>c) Represent, solve, and justify solutions to single-step and multistep contextual problems (e.g., join, separate, part-part whole, comparison) involving addition or subtraction of whole numbers where addends or minuends do not exceed 100.</p>	Addition and subtraction with and without regrouping.
Week 18-19	<p>2.PS.1 The student will apply the data cycle (pose questions; collect or acquire data; organize and represent data; and analyze data and communicate results) with a focus on pictographs and bar graphs.</p> <p>a) Pose questions, given a predetermined context, that require the collection of data (limited to 25 or fewer data points for no more than six categories).</p> <p>b) Determine the data needed to answer a posed question and collect the data using various methods (e.g., voting; creating lists, tables, or charts; tallying).</p> <p>c) Organize and represent a data set using a pictograph where each symbol represents up to 2 data points. Determine and use a key to assist in the analysis of the data.</p> <p>d) Organize and represent a data set using a bar graph with a title and labeled axes (limited to 25 or fewer data points for up to six categories, and limit increments of scale to multiples of 1 or 2).</p> <p>e) Analyze data represented in pictographs and bar graphs and communicate results:</p> <p>i) ask and answer questions about the data represented in pictographs and bar graphs (e.g., total number of data points represented, how many in each category, how many more or less are in one category than another). Pictograph keys will be limited to symbols representing 1, 2, 5, or 10 pieces of data and bar graphs will be limited to scales with increments in multiples of 1, 2, 5, or 10; and ii) draw conclusions about the data and make predictions based on the data.</p>	Graphing - collect and apply data

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	Third Nine Weeks	
Week 20-21	<p>2.NS.4 The student will solve problems that involve counting and representing money amounts up to \$2.00.</p> <p>a) Identify a quarter and its value and determine multiple ways to represent the value of a quarter using pennies, nickels, and/or dimes.</p> <p>b) Count by ones, fives, tens, and twenty-fives to determine the value of a collection of mixed coins and one-dollar bills whose total value is \$2.00 or less.</p> <p>c) Construct a set of coins and/or bills to total a given amount of money whose value is \$2.00 or less.</p> <p>d) Represent the value of a collection of coins and one-dollar bills (limited to \$2.00 or less) using the cent (¢) and dollar (\$) symbols and decimal point (.).</p>	Money
Week 22-23	<p>2.MG.2 The student will demonstrate an understanding of the concept of time to the nearest five minutes, using analog and digital clocks.</p> <p>a) Identify the number of minutes in an hour (60 minutes) and the number of hours in a day (24 hours).</p> <p>b) Determine the unit of time (minutes, hours, days, or weeks) that is most appropriate when measuring a given activity or context and explain reasoning (e.g., Would you measure the time it takes to brush your teeth in minutes or hours?).</p> <p>c) Show, tell, and write time to the nearest five minutes, using analog and digital clocks.</p> <p>d) Match a written time (e.g., 1:35, 6:20, 9:05) to the time shown on an analog clock to the nearest five minutes.</p>	Time to 5 minutes
Week 24	2.MG.3 The student will identify, describe, and create plane figures (including circles, triangles, squares, and	Plane and solid shapes

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	<p>rectangles) that have at least one line of symmetry and explain its relationship with congruency.</p> <p>a) Explore a figure using a variety of tools (e.g., paper folding, geoboards, drawings) to show and justify a line of symmetry, if one exists.</p> <p>b) Create figures with at least one line of symmetry using various concrete and pictorial representations.</p> <p>c) Describe the two resulting figures formed by a line of symmetry as being congruent (having the same shape and size).</p>	
Week 25-26	<p>2.MG.4 The student will describe, name, compare, and contrast plane and solid figures (circles/spheres, squares/cubes, and rectangles/rectangular prisms).</p> <p>a) Trace faces of solid figures (cubes and rectangular prisms) to create the set of plane figures related to the solid figure.</p> <p>b) Compare and contrast models and nets (cutouts) of cubes and rectangular prisms (e.g., number and shapes of faces, edges, vertices).</p> <p>c) Given a concrete or pictorial model, name and describe the solid figure (sphere, cube, and rectangular prism) by its characteristics (e.g., number of edges, number of vertices, shapes of faces).</p> <p>d) Compare and contrast plane and solid figures (circles/spheres, squares/cubes, and rectangles/rectangular prisms) according to their characteristics (e.g., number and shapes of their faces, edges, vertices).</p>	Compare shapes
Week 27	<p>2.NS.3 The student will use mathematical reasoning and justification to solve contextual problems that involve partitioning models into equal-sized parts (halves, fourths, eighths, thirds, and sixths).</p> <p>a) Model and describe fractions as representing equal-size parts of a whole.</p> <p>b) Describe the relationship between the number of fractional parts needed to make a whole and the size of the parts (i.e., as the whole is divided into more parts, each part becomes smaller).</p> <p>c) Compose the whole for a given fractional part and its value (in context) for halves, fourths, eighths, thirds, and sixths (e.g., when given <math>\frac{1}{4}</math>, determine how many pieces would be needed to make <math>\frac{4}{4}</math>).</p> <p>d) Using same-size fraction pieces, from a region/area model, count by unit fractions up to two wholes (e.g., zero one-fourths, one one-fourth, two one-fourths, three one-fourths, four one-fourths, five one-fourths; or zero-fourths,</p>	Identify fractions

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	<p>one-fourth, two-fourths, three fourths, four-fourths, five-fourths).</p> <p>e) Given a context, represent, name, and write fractional parts of a whole for halves, fourths, eighths, thirds, and sixths using:</p> <p>i) region/area models (e.g., pie pieces, pattern blocks, geoboards); ii) length models (e.g., paper fraction strips, fraction bars, rods, number lines); and iii) set models (e.g., chips, counters, cubes).</p> <p>f) Compare unit fractions for halves, fourths, eighths, thirds, and sixths using words (greater than, less than, or equal to) and symbols (<math>&gt;</math>, <math>&lt;</math>, <math>=</math>), with region/area and length models.</p>	

	Fourth Nine Weeks	
Week 28-29	<p>2.NS.3 The student will use mathematical reasoning and justification to solve contextual problems that involve partitioning models into equal-sized parts (halves, fourths, eighths, thirds, and sixths).</p> <p>a) Model and describe fractions as representing equal-size parts of a whole.</p> <p>b) Describe the relationship between the number of fractional parts needed to make a whole and the size of the parts (i.e., as the whole is divided into more parts, each part becomes smaller).</p> <p>c) Compose the whole for a given fractional part and its value (in context) for halves, fourths, eighths, thirds, and sixths (e.g., when given <math>\frac{1}{4}</math>, determine how many pieces would be needed to make <math>\frac{4}{4}</math>).</p> <p>d) Using same-size fraction pieces, from a region/area model, count by unit fractions up to two wholes (e.g., zero one-fourths, one one-fourth, two one-fourths, three one-</p>	Compare Fractions



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	<p>fourths, four one-fourths, five one-fourths; or zero-fourths, one-fourth, two-fourths, three fourths, four-fourths, five-fourths).</p> <p>e) Given a context, represent, name, and write fractional parts of a whole for halves, fourths, eighths, thirds, and sixths using:</p> <p>i) region/area models (e.g., pie pieces, pattern blocks, geoboards); ii) length models (e.g., paper fraction strips, fraction bars, rods, number lines); and iii) set models (e.g., chips, counters, cubes).</p> <p>f) Compare unit fractions for halves, fourths, eighths, thirds, and sixths using words (greater than, less than, or equal to) and symbols (<math>&gt;</math>, <math>&lt;</math>, <math>=</math>), with region/area and length models.</p>	
Week 30-31	<p>2.MG.1 The student will reason mathematically using standard units (U.S. Customary) with appropriate tools to estimate, measure, and compare objects by length, weight, and liquid volume to the nearest whole unit.</p> <p>a) Explain the purpose of various measurement tools and how to use them appropriately by:</p> <p>i) identifying a ruler as an instrument to measure length; ii) identifying different types of scales as instruments to measure weight; and iii) identifying different types of measuring cups as instruments to measure liquid volume.</p> <p>b) Use U.S. Customary units to estimate, measure, and compare the two for reasonableness</p> <p>: i) the length of an object to the nearest inch, using a ruler;</p> <p>ii) the weight of an object to the nearest pound, using a scale; and</p> <p>iii) the liquid volume of a container to the nearest cup, using a measuring cup.</p>	Measurement of length, weight, and volume
Week 32-33	<p>Review Skills:</p> <p>2.CE.1 The student will recall with automaticity addition and subtraction facts within 20 and estimate, represent, solve, and justify solutions to single-step and multistep problems, including those in context, using addition and subtraction with whole numbers where addends or minuends do not exceed 100.</p> <p>b) Apply strategies, (e.g., the use of concrete and pictorial models, place value, properties of addition, the relationship between addition and subtraction) to determine the sum or difference of two whole numbers where addends or minuends do not exceed 100. c)</p>	Addition/subtraction/word problems

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	Represent, solve, and justify solutions to single-step and multistep contextual problems (e.g., join, separate, part-part whole, comparison) involving addition or subtraction of whole numbers where addends or minuends do not exceed 100.	
Week 34-36	Review Grade 2 skills and introduce Grade 3 skills and concepts Place Value Money Addition and Subtraction with regrouping Time Multiplication through repeated addition mastery of multiplication for x1 x2 x5 x10 Multiplication arrays	–