Washington Mathematics

Grade 2

Standards for Mathematical Practice

1 **Make sense of problems and persevere in solving them.** 1

2 **Reason abstractly and quantitatively.** 2

3 **Construct viable arguments and critique the reasoning of others.** 3

4 **Model with mathematics.** 4

5 **Use appropriate tools strategically.** 5

6 **Attend to precision.** 6

7 **Look for and make use of structure.** 7

8 **Look for and express regularity in repeated reasoning.** 8

Operations and Algebraic Thinking

A Represent and solve problems involving addition and subtraction.

1 Use addition and subtraction within 100 to flexibly, efficiently, and accurately solve one- and twostep 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

B Add and subtract within 20.

2 Flexibly, efficiently, and accurately add and subtract within 20 using mental strategies. 2.OA.B.2

C Work with equal groups of objects to gain foundations for multiplication.

3 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

4 Use addition to find the total number of objects arranged in rectangular arrays with up to 5 rows and up to 5 columns; write an equation to express the total as a sum of equal addends. 2.OA.C.4

Numbers and Op

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A Understand place value.

1 Understand that the three digits of a three-digit number represent amounts of hundreds, tens, and ones; e.g., 706 equals 7 hundreds, 0 tens, and 6 ones. 2.NBT.A.1

2 Count within 1000; skip-count by 5s, 10s, and 100s. 2.NBT.A.2

3 Read and write numbers to 1000 using base-ten numerals, number names, and expanded form. 2.NBT.A.3

4 Compare two three-digit numbers based on meanings of the hundreds, tens, and ones digits, using >, =, and < symbols to record the results of comparisons. 2.NBT.A.4

B Use place value understanding and properties of operations to add and subtract.

5 Flexibly, efficiently, and accurately add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction. 2.NBT.B.5

6 Add up to four two-digit numbers using strategies based on place value and properties of operations. 2.NBT.B.6

7 Flexibly, efficiently, and accurately add and subtract within 1000, 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. Demonstrate understanding 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.B.7

8 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.B.8

9 Explain why addition and subtraction strategies work, using place value and the properties of operations. 2.NBT.B.9

Measurement and Data

A Measure and estimate lengths in standard units.

1 Measure the length of an object by selecting and using appropriate tools. 2.MD.A.1

2 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

3 Estimate lengths using units of inches, feet, centimeters, and meters. 2.MD.A.3

4 Measure to determine how much longer one object is than another, expressing the length difference in terms of a standard-length unit. 2.MD.A.4

B Relate addition and subtraction to length.

5 Flexibly, efficiently, and accurately 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

6 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

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C Work with time and money.

7 Tell and write time from analog and digital clocks to the nearest five minutes, using a.m. and p.m. 2.MD.C.7

8 Flexibly, efficiently, and accurately solve word problems involving dollar bills, quarters, dimes, nickels, and pennies, using $ and ¢ symbols appropriately. 2.MD.C.8

D Represent and interpret data.

9 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

10 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 information presented in a bar graph. 2.MD.D.10

Geometry

A Reason with shapes and their attributes.

1 Identify and draw shapes based on 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

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

3 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. Demonstrate that equal shares of identical wholes need not have the same shape. 2.G.A.3

Data Science

Formulate statistical investigative questions.

1 Generate questions to investigate situations of interest to students within the classroom, school, or community. 2.DS.1

Collect data/ consider data.

2 Collect and use data to consider and decide what data will answer the investigative question. Organize data with pictographs, line plots and bar graphs with single-unit scales. Recognize that data can vary for a variety of reasons. 2.DS.2

Analyze the data.

3 Analyze data sets with up to four categories by making comparisons, looking for patterns and/or making predictions. 2.DS.3

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Interpret results.

4 Interpret and communicate results through structured answers with teacher guidance. Make a statement(s) about the data collected to support the answer to the investigative question. 2.DS.4