

## Pacing Guide for Acuity Readiness Form B Grade 3- Mathematics

Grade	Domain	Cluster	Cluster	Standard Skills	DOK
Grade 02	2.G Geometry	Reason with shapes and their attributes	Reason with shapes and their attributes	2.G.1 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.	Level 1 - Recognizing and Recalling
Grade 02	2.MD Measurement and Data	Measure and estimate lengths in standard units	Measure and estimate lengths in standard units	2.MD.3 Estimate lengths using units of inches, feet, centimeters, and meters.	Level 2 - Using Fundamental Concepts and Procedures
Grade 02	2.NBT Number and Operations in Base Ten	Understand place value	2.NBT.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. Understand the following as special cases:	2.NBT.1.b The numbers 100, 200, 300, 400, 500, 600, 700, 800, 900 refer to one, two, three, four, five, six, seven, eight, or nine hundreds (and 0 tens and 0 ones).	Level 1 - Recognizing and Recalling
Grade 02	2.NBT Number and Operations in Base Ten	Understand place value	Understand place value	2.NBT.2 Count within 1000; skip-count by 5s, 10s, and 100s.	Level 1 - Recognizing and Recalling/Level 2- Using Fundamental Concepts and Procedures
Grade 02	2.NBT Number and Operations in Base Ten	Understand place value	Understand place value	2.NBT.3 Read and write numbers to 1000 using base-ten numerals, number names, and expanded form.	Level 2 - Using Fundamental Concepts and Procedures

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Grade 02	2.OA Operations and Algebraic Thinking	Represent and solve problems involving addition and subtraction	Represent and solve problems involving addition and subtraction	2.OA.1 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.	Level 2 - Using Fundamental Concepts and Procedures
Grade 02	2.OA Operations and Algebraic Thinking	Work with equal groups of objects to gain foundations for multiplication	Work with equal groups of objects to gain foundations for multiplication	2.OA.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.	Level 2 - Using Fundamental Concepts and Procedures
Grade 03	3.G Geometry	Reason with shapes and their attributes	Reason with shapes and their attributes	3.G.1 Understand that shapes in different categories (e.g., rhombuses, rectangles, and others) may share attributes (e.g., having four sides), and that the shared attributes can define a larger category (e.g., quadrilaterals). Recognize rhombuses, rectangles, and squares as examples of quadrilaterals, and draw examples of quadrilaterals that do not belong to any of these subcategories.	Level 1 - Recall
Grade 03	3.G Geometry	Reason with shapes and their attributes	Reason with shapes and their attributes	3.G.2 Partition shapes into parts with equal areas. Express the area of each part as a unit fraction of the whole. For example, partition a shape into 4 parts with equal area, and describe the area of each part as $\frac{1}{4}$ of the area of the shape.	Level 2 - Using Fundamental Concepts and Procedures

Grade	Domain	Cluster	Cluster	Standard Skills	DOK
Grade 03	3.MD Measurement and Data	Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects	Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects	3.MD.1 Tell and write time to the nearest minute and measure time intervals in minutes. Solve word problems involving addition and subtraction of time intervals in minutes, e.g., by representing the problem on a number line diagram.	Level 2 - Using Fundamental Concepts and Procedures
Grade 03	3.MD Measurement and Data	Represent and interpret data	Represent and interpret data	3.MD.3 Draw a scaled picture graph and a scaled bar graph to represent a data set with several categories. Solve one- and two-step how many more and how many less problems using information presented in scaled bar graphs. For example, draw a bar graph in which each square in the bar graph might represent 5 pets.	Level 2 - Using Fundamental Concepts and Procedures
Grade 03	3.MD Measurement and Data	Represent and interpret data	Represent and interpret data	3.MD.4 Generate measurement data by measuring lengths using rulers marked with halves and fourths of an inch. Show the data by making a line plot, where the horizontal scale is marked off in appropriate units - whole numbers, halves, or quarters.	Level 2 - Using Fundamental Concepts and Procedures/Level 1- Recall
Grade 03	3.MD Measurement and Data	Geometric measurement: understand concepts of area and relate area to multiplication and to addition	3.MD.5 Recognize area as an attribute of plane figures and understand concepts of area measurement.	3.MD.5.a A square with side length 1 unit, called a unit square, is said to have one square unit of area, and can be used to measure area.	Level 2 - Using Fundamental Concepts and Procedures
Grade 03	3.MD Measurement and Data	Geometric measurement: understand concepts of area and relate area to multiplication and to addition	3.MD.5 Recognize area as an attribute of plane figures and understand concepts of area measurement.	3.MD.5.b A plane figure which can be covered without gaps or overlaps by $n$ unit squares has an area of $n$ square units.	Level 1 - Recognizing and Recalling
Grade 03	3.MD Measurement and Data	Geometric measurement: understand concepts of area and relate area to multiplication and to addition	3.MD.7 Relate area to the operations of multiplication and addition.	3.MD.7.c Use tiling to show in a concrete case that the area of a rectangle with whole-number side lengths $a$ and $b + c$ is the sum of $a \times b$ and $a \times c$ . Use area models to represent the distributive property in mathematical reasoning.	Level 3 - Concluding and Explaining

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Grade 03	3.MD Measurement and Data	Geometric measurement: recognize perimeter as an attribute of plane figures and distinguish between linear and area measures	Geometric measurement: recognize perimeter as an attribute of plane figures and distinguish between linear and area measures	3.MD.8 Solve real world and mathematical problems involving perimeters of polygons, including finding the perimeter given the side lengths, finding an unknown side length, and exhibiting rectangles with the same perimeter and different areas or with the same area and different perimeters.	Level 2 - Using Fundamental Concepts and Procedures
Grade 03	3.NBT Number and Operations in Base Ten	Use place value understanding and properties of operations to perform multi-digit arithmetic	Use place value understanding and properties of operations to perform multi-digit arithmetic	3.NBT.2 Fluently add and subtract within 1000 using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction.	Level 1 - Recall
Grade 03	3.NF Number and Operations - Fractions	Develop understanding of fractions as numbers	Develop understanding of fractions as numbers	3.NF.1 Understand a fraction $1/b$ as the quantity formed by 1 part when a whole is partitioned into $b$ equal parts; understand a fraction $a/b$ as the quantity formed by $a$ parts of size $1/b$ .	Level 2 - Using Fundamental Concepts and Procedures
Grade 03	3.NF Number and Operations - Fractions	Develop understanding of fractions as numbers	3.NF.2 Understand a fraction as a number on the number line; represent fractions on a number line diagram.	3.NF.2.a Represent a fraction $1/b$ on a number line diagram by defining the interval from 0 to 1 as the whole and partitioning it into $b$ equal parts. Recognize that each part has size $1/b$ and that the endpoint of the part based at 0 locates the number $1/b$ on the number line.	Level 2 - Using Fundamental Concepts and Procedures
Grade 03	3.NF Number and Operations - Fractions	Develop understanding of fractions as numbers	3.NF.2 Understand a fraction as a number on the number line; represent fractions on a number line diagram.	3.NF.2.b Represent a fraction $a/b$ on a number line diagram by marking off $a$ lengths $1/b$ from 0. Recognize that the resulting interval has size $a/b$ and that its endpoint locates the number $a/b$ on the number line.	Level 2 - Using Fundamental Concepts and Procedures
Grade 03	3.NF Number and Operations - Fractions	Develop understanding of fractions as numbers	3.NF.3 Explain equivalence of fractions in special cases, and compare fractions by reasoning about their size.	3.NF.3.b Recognize and generate simple equivalent fractions, e.g., $1/2 = 2/4$ , $4/6 = 2/3$ . Explain why the fractions are equivalent, e.g., by using a visual fraction model.	Level 2 - Using Fundamental Concepts and Procedures

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Grade 03	3.NF Number and Operations - Fractions	Develop understanding of fractions as numbers	3.NF.3 Explain equivalence of fractions in special cases, and compare fractions by reasoning about their size.	3.NF.3.d Compare two fractions with the same numerator or the same denominator by reasoning about their size. Recognize that comparisons are valid only when the two fractions refer to the same whole. Record the results of comparisons with the symbols $>$ , $=$ , or $<$ , and justify the conclusions, e.g., by using a visual fraction model.	Level 2 - Using Fundamental Concepts and Procedures
Grade 03	3.OA Operations and Algebraic Thinking	Represent and solve problems involving multiplication and division	Represent and solve problems involving multiplication and division	3.OA.3 Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.	Level 1 - Recall
Grade 03	3.OA Operations and Algebraic Thinking	Represent and solve problems involving multiplication and division	Represent and solve problems involving multiplication and division	3.OA.4 Determine the unknown whole number in a multiplication or division equation relating three whole numbers. For example, determine the unknown number that makes the equation true in each of the equations $8 \times ? = 48$ , $5 = \text{[box]} / 3$ , $6 \times 6 = ?$ .	Level 1 - Recall
Grade 03	3.OA Operations and Algebraic Thinking	Understand properties of multiplication and the relationship between multiplication and division	Understand properties of multiplication and the relationship between multiplication and division	3.OA.5 Apply properties of operations as strategies to multiply and divide. Examples: If $6 \times 4 = 24$ is known, then $4 \times 6 = 24$ is also known. (Commutative property of multiplication.) $3 \times 5 \times 2$ can be found by $3 \times 5 = 15$ , then $15 \times 2 = 30$ , or by $5 \times 2 = 10$ , then $3 \times 10 = 30$ . (Associative property of multiplication.) Knowing that $8 \times 5 = 40$ and $8 \times 2 = 16$ , one can find $8 \times 7$ as $8 \times (5 + 2) = (8 \times 5) + (8 \times 2) = 40 + 16 = 56$ . (Distributive property.)	Level 1 - Recall
Grade 03	3.OA Operations and Algebraic Thinking	Solve problems involving the four operations, and identify and explain patterns in arithmetic	Solve problems involving the four operations, and identify and explain patterns in arithmetic	3.OA.9 Identify arithmetic patterns (including patterns in the addition table or multiplication table), and explain them using properties of operations. For example, observe that 4 times a number is always even, and explain why 4 times a number can be decomposed into two equal addends.	Level 2 - Using Fundamental Concepts and Procedures