

Third Grade Major, Supporting and Additional Standards by Cluster

Represent and solve problems involving multiplication and division			
Ⓢ3.OA.1	DOK 1,2	Interpret products of whole numbers, e.g., interpret 5×7 as the total number of objects in 5 groups of 7 objects each.	Major
Ⓢ3.OA.2	DOK 1,2	Interpret whole-number quotients of whole numbers, e.g., interpret $56 \div 8$ as the number of objects in each share when 56 objects are partitioned equally into 8 shares, or as a number of shares when 56 objects are partitioned into equal shares of 8 objects each.	Major
Ⓢ3.OA.3	DOK 1,2	Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities	Major
Ⓢ3.OA.4	DOK 1,2	Determine the unknown whole number in a multiplication or division equation relating three whole numbers.	Major
Understand properties of multiplication and the relationship between multiplication and division			
Ⓢ3.OA.5	DOK 1,2	Apply properties of operations as strategies to multiply and divide. ² <i>Examples: If $6 \times 4 = 24$ is known, then $4 \times 6 = 24$ is also known.</i>	Major
Ⓢ3.OA.6	DOK 1,2	Understand division as an unknown-factor problem	Major
Multiply and divide within 100.			
Ⓢ3.OA.7	DOK 1,2,3	Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division	Major
Solve problems involving the four operations, and identify and explain patterns in arithmetic.			
Ⓢ3.OA.8	DOK 1,2,3	Solve two-step word problems using the four operations. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding	Major
Ⓢ3.OA.9	DOK 1	Identify arithmetic patterns (including patterns in the addition table or multiplication table), and explain them using properties of operations	Major
Use place value understanding and properties of operations to perform multi-digit arithmetic.			
3.NBT.1	DOK 1,2	Use place value understanding to round whole numbers to the nearest 10 or 100.	Additional
3.NBT.2	DOK 1,2	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.	Additional
3.NBT.3	DOK 1,2	Multiply one-digit whole numbers by multiples of 10 in the range 10–90 (e.g., 9×80 , 5×60) using	Additional

		strategies based on place value and properties of operations.	
Develop understanding of fractions as numbers.			
③.NF.1	DOK 1,2	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 $1/b$.	Major
③.NF.2	DOK 1,2	Understand a fraction as a number on the number line; represent fractions on a number line diagram.	Major
③.NF.3	DOK 1,2,3	Explain equivalence of fractions in special cases, and compare fractions by reasoning about their size.	Major
Solve problems involving measurement and estimation of intervals of time, liquid volumes and masses of objects.			
③.MD.1	DOK 1,2	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 minute	Major
③.MD.2	DOK 1,2	Measure and estimate liquid volumes and masses of objects using standard units of grams (g), kilograms (kg), and liters (l). ¹ Add, subtract, multiply, or divide to solve one-step word problems involving masses or volumes that are given in the same units	Major
Represent and interpret data			
③.MD.3	DOK 1,2	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	Supporting
③.MD.4	DOK 2	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.	Supporting
Geometric measurement: understand concept of area and relate area to multiplication and to addition			
③.MD.5	DOK 1,2	Recognize area as an attribute of plane figures and understand concepts of area measurement.	Major
③.MD.6	DOK 1,2	Measure areas by counting unit squares (square cm, square m, square in, square ft, and improvised units).	Major
③.MD.7	DOK 1,2	Relate area to the operations of multiplication and addition.	Major
Geometric measurement: recognize perimeter as an attribute of plane figures and distinguish			

between linear and area measurements			
3.MD.8	DOK 1,2	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.	Additional
Reason with shapes and their attributes			
3.G.1	DOK 1,2	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.	Supporting
3.G.2	DOK 1,2	Partition shapes into parts with equal areas. Express the area of each part as a unit fraction of the whole.	Supporting

Total Priority Standards: 19