

			C	ARD	S			
1 - 4	5 – 8	9 – 12	13 – 16	17 - 20	21 – 24	25 – 28	29 – 32	33 – 36

ALGEBR.	LGEBRAIC THINKING									
Operation	ns and Algebraic Thinking (OA)									
Represer	t and solve problems involving multiplication and division.									
3.OA.1.	Interpret products of whole numbers.			×						
3.OA.2.	Interpret whole-number quotients of whole numbers.			×				×		
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.	×	×	×						
3.OA.4.	Determine the unknown whole number in a multiplication or division equation relating three whole numbers.		×			×				
Understa	nd properties of multiplication and the relationship between multiplic	atio	n an	d di	visio	on.				_
3.OA.5.	Apply properties of operations (Commutative, Associative, Distributive) as strategies to multiply and divide.		×		×		×		×	
3.OA.6.	Understand division as an unknown-factor problem.							×		
Multiply	and divide within 100.									_
3.OA.7.	Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division or properties of operations. By the end of Grade 3, know from memory all products of two one-digit numbers.					×		×		
Solve pro	blems involving the four operations, and identify and explain patterns	in a	rith	met	ic.					_
3.OA.8.	Solve two-step word problems (involving whole numbers and not involving parentheses) 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.	×					×			,
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Identify arithmetic patterns (including patterns in the addition table or

multiplication table), and explain them using properties of operations.

3.OA.9.



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BASE TEN

Number a	nd Operations in Base Ten (NBT)									
Use place	value understanding and properties of operations to perform multi-di	igit a	arith	met	tic.					
3.NBT.1.	Use place value understanding to round whole numbers to the nearest 10 or 100.			×						
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.	×	×		×	×			×	×
3.NBT.3.	Multiply one-digit whole numbers by multiples of 10 in the range 10–90 (e.g., 9×80 , 5×60) using strategies based on place value and properties of operations.						×	×		



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FRACTIONS

FRACTI	O	NS Control of the con									
Number	an	d Operations – Fractions (NF)									
Develop	uı	nderstanding 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 $1/b$.	×	×	×		×	×	×		
3.NF.2.		Understand a fraction as a number on the number line; represent fractions on a number line diagram:									
	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.	×	×	×		×	×			
	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.				×			×	×	×
3.NF.3.		Explain equivalence of fractions in special cases, and compare fractions by reasoning about their size:									
	a.	Understand two fractions as equivalent (equal) if they are the same size, or the same point on a number line.								×	×
	b.	Recognize and generate simple equivalent fractions, e.g., $1/2 = 2/4$, $4/6 = 2/3$. Explain why the fractions are equivalent.			×			×			
	c.	Express whole numbers as fractions, and recognize fractions that are equivalent to whole numbers.				×				×	
	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.									
Geometi	etry (G)										
Reason	son 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.	×	×	×	×	×	×	×		



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MEASUREMENT AND DATA

Measurement and Data (MD)

Solve problems involving measurement and estimation of intervals of time, liquid volume, and masses of objects

•	lems involving measurement and estimation of intervals of time, liqu			1						
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.	×	×			×		×		
3.MD.2.	Measure and estimate liquid volumes and masses of objects using standard units of grams (g), kilograms (kg), and liters (l). Add, subtract, multiply, or divide to solve one-step word problems involving masses or volumes that are given in the same units, e.g., by using drawings (such as a beaker with a measurement scale) to represent the problem.	×		×	×				×	;
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 in scaled bar graphs.	×				×				
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.		×				×		×	>
Geometric	measurement: Understand concepts of area and relate area to multi	plica	atior	n an	d ad	diti	on.	•		
3.MD.5.	Recognize area as an attribute of plane figures and understand concepts of area measurement.									
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.			×						
b.	A plane figure which can be covered without gaps or overlaps by n unit squares is said to have an area of n square units.			×						
3.MD.6.	Measure area by counting unit squares (square cm, square in, square ft, and improvised units.		×							
3.MD.7.	Relate area to the operations of multiplication and addition.									
a.	Find the area of a rectangle with whole-number side lengths by tiling it, and show that the area is the same as would be found by multiplying the side lengths.			×	×	×	×	×		>



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MEASURE	EMENT AND DATA (cont.)									
b.	Multiply side lengths to find areas of rectangles with whole-number side lengths in the context of solving real-world and mathematical problems, and represent whole-number products as rectangular areas in mathematical reasoning.			×	×	×	×	×		×
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.				×	×		×		
d.	Recognize area as additive. Find areas of rectilinear figures by decomposing them into non-overlapping rectangles and adding the areas of the non-overlapping parts, applying this technique to solve real-world problems.			×	×	×		×		
Geometric	measurement: Recognize perimeter as an attribute of plane figures a	nd (disti	ngu	ish l	betv	veen	line	ear	
3.MD.8.	Solve real-world and mathematical problems involving perimeters of polygons, including finding the perimeter given the side lengths,			×	×		×	×	×	



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GEOMET	TRY									
Geometry	(G)									
Reason w	ith 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.			×	×	×	×		×	×
3.G.2.	Partition shapes into parts with equal areas. Express the area of each part as a unit fraction of the whole.	×	×	×	×	×	×	×	×	×
Number o	relop understanding of fractions as numbers.									
Develop	understanding of fractions as numbers.									
3.NF.2.	Understand a fraction as a number on a number line; represent fractions on a number line diagram.	×	×							
3.NF.3.	Explain equivalence of fractions in special cases, and compare fractions by reasoning about their size.				×					
Measuren	nent and Data (MD)									
Geometr	ic measurement: Understand concepts of area and relate area to multi	plica	ation	n an	d ad	ditio	on.			
3.MD.5.	Recognize area as an attribute of plane figures and understand concepts of area measurement.					×	×			×
3.MD.6.	Measure area by counting unit squares (square cm, square in, square ft, and improvised units.							×		
3.MD.7.	Relate area to the operations of multiplication and addition.							×		
	ic measurement: Recognize perimeter as an attribute of plane figures a	and	disti	ngu	ish	oetv	veer	line	ear	
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.							×	×	×