New York State Next Generation Mathematics Learning Standards			
Grade 3 Crosswalk			
Operations and Algebraic Thinking			
Cluster	NYS P-12 CCLS	NYS Next Generation Learning Standard	
Represent and solve proble			

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Solve problems involving	3.OA.8 Solve two-step word problems using the four	
the four operations, and	operations. Represent these problems using equations	
identify and extend patterns in arithmetic.	with a letter standing for the unknown quantity. Assess	

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Grade	

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Number and Operations - Fractions			
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Develop understanding of fractions as numbers.	3.NF.1 Understand a fraction $1/b$ as the quantity formed by 1 part when <i>a</i> whole is partitioned into <i>b</i> equal parts; understand a fraction a/b as the quantity formed by <i>a</i> parts of size $1/b$.	NY-3.NF.1 Understand a unit fraction , –, is the quantity formed by 1 part when a whole is partitioned into <i>b</i> equal parts.	
		Understand a fraction – as the quantity formed by a parts of	
		size –.	
		<u>Note</u>: Fractions are limited to those with denominators 2, 3, 4, 6, and 8.	
I	3.NF.2 Understand a fraction as a number on the number line; represent fractions on a number line diagram .	I	
	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 <i>b</i> 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.		
	Represent a fraction <i>a/b</i> on a number line diagram by marking off		

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Develop understanding of fractions as numbers.	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, e.g., by using a visual fraction model. 		

c. Express whole numbers as fractions, and recognize fractions that are equivalent to whole numbers.

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Measurement and Data		
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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.	 NY-3.MD.1 Tell and write time to the nearest minute and measure time intervals in minutes. Solve one-step word problems involving addition and subtraction of time intervals in minutes. e.g., representing the problem on a number line or other visual model.
		<u>Note</u> : This includes one-step problems that cross into a new hour.

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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-uvgr "õj qy "o cp{"o qtgö"cpf "õj qy "o cp{"guuö"r tqdrgo u" using information presented in scaled bar graphs. <i>For example, draw a bar graph in which each square in the bar graph might represent 5 pets.</i>	 NY-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-uvgr 'õj qy 'o cp{" o qtgö"cpf "õj qy 'o cp{ "guuö"r tqdrgo u"wukpi " information presented in a scaled picture graph or a scaled bar graph. e.g., Draw a bar graph in which each square in the bar graph might represent 5 pets. 	
	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 unitsô whole numbers, halves, or quarters.	NY-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 unitsô whole numbers, halves, or quarters.	
Geometric measurement: understand concepts of area and relate area to multiplication and addition.	 3.MD.5 Recognize area as an attribute of plane figures and understand concepts of area measurement. a. C'us wctg'y kj 'ukf g'ngpi yj '3'wpkv'ecmgf 'õc'wpkv' us wctg.ö'ku'uckf ''vq'j cxg'öqpg'us wctg'wpkö''qh'ctgc.''cpf '' can be used to measure area. A plane figure which can be covered without gaps or overlaps by <i>n</i> unit squares is said to have an area of <i>n</i> square units. 	NY-3.MD.5 Recognize area as an attribute of plane figures and understand concepts of area measurement. NY-3.MD.5a Recognize a square with side length 1 wpkv"ecngf "öc"wpkv"us wctg.ö"ku"uclf "vq" cxg"öqpg" us wctg"wpkö"qh"ctgc."cpf "ecp"dg"wugf "vq" o gcuwtg"ctgc0 NY-3.MD.5b Recognize a plane figure which can be covered without gaps or overlaps by <i>n</i> unit squares is said to have an area of <i>n</i> square units.	

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Geometric measurement:	3.MD.6 Measure areas by counting unit squares	NY-3.MD.6 Measure areas by counting unit squares.	
understand concepts of area	(square cm, square m, square in, square ft., and		
and relate area to	improvised units).	<u>Note</u> : Unit squares include square cm, square m, square in., square ft.,	
multiplication and to addition.	3.MD.7 Relate area to the operations of multiplication and addition.	NY-3.STDTAREG e 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.	NY-3.MD.7a 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 beu	
	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.		

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Geometric measurement:	3.MD.8 Solve real world and mathematical	NY-3.MD.8a Solve real world and mathematical problems involving
recognize perimeter as an	problems involving perimeters of polygons,	perimeters of polygons, including finding the perimeter given the side
attribute of plane figures and	including finding the perimeter given the side	lengths or finding one unknown side length given the perimeter and
distinguish between linear and	lengths, finding an unknown side length, and	other side lengths.
area measures.	exhibiting rectangles with the same perimeter and	
	different areas or with the same area and different	NY-3.MD.8b Identify rectangles with the same perimeter and
	perimeters.	different areas or with the same area and different perimeters.