Compass/Intervention Probes – Math
Grade – 3rd

Operations and Algebraic Thinking				
RTI Probe	Common Core (NY Performance Indicator)	# of Activities	Support at Previous Grade Levels	Notes
Math 3 Numeric and Geometric Patterns	3.OA. 9 (NY 3.A.2)	9	2nd	Describe and extend numeric and geometric patterns
Math 3 Cumulative Property of + and x	3.OA.5 (NY 3.N.6)	6		Use and explain the commutative property of addition and multiplication.
Math 3 Multiplication x 1	3.OA. 5 (NY 3.N.7)	3		Use 1 as the identity element for multiplication.
Math 3 Fluency: 1 Digit Multiplication Facts	3.OA.7 (NY 3.N.19)	5		Develop fluency with single-digit multiplication facts
Math 3 Strategies for Solving Multiplication Problems (1)	3.OA.7 (NY 3.N.20)	3		Use a variety of strategies to solve multiplication problems with factors up to 12 x 12.
Math 3 Strategies for Solving Multiplication Problems (2)	3.OA.3 (NY 3.N.21)	10		Use the area model, tables, patterns, arrays, and doubling to provide meaning for multiplication.
Math 3 Associative Property of Multiplication	3.OA.5 (NY 4.N.06)	4		
Numbers and Operations in Base 10				
RTI Probe	Common Core (NY Performance Indicator)	# of Activities	Support at Previous Grade Levels	Notes
Math 3 Add and Subtract 3 Digit Numbers	3.NBT.2 (NY 3.N.18)	7	1st, 2nd	Use a variety of strategies to add and subtract 3-digit numbers (with and without regrouping).
Math 3 Estimate Numbers up to 500	3.NBT.1 (NY 3.N.25)	5		Estimate numbers up to 500

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Numbers and Operations - Fractions

RTI Probe	Common Core (NY Performance Indicator)	# of Activities	Support at Previous Grade Levels	Notes
Math 3 >, <, = with Fractions	3.NF.3d (NY 3.A.1)	7	2nd	Use the symbols < > = to compare whole numbers and unit fractions
Math 3 Fractions: Part of a Whole	3.NF.1 (NY 3.N.10)	9		Develop an understanding of fractions as part of a whole unit and as parts of a collection.
Math 3 Fractional Numbers: Parts of a Whole	3.NF.1 (NY 3.N.13)	4		Recognize fractional numbers as equal parts of a whole
Math 3 Equivalent Fractions 1/2, 1/3, 1/4	3.NF.3 (NY 3.N.14)	4		Explore equivalent fractions (1/2, 1/3, 1/4)

Measurement and Data

RTI Probe	Common Core (NY Performance Indicator)	# of Activities	Support at Previous Grade Levels	Notes
Math 3 Measurement: Tools & Units	3.MD.1 (3.M.1)	10		Select tools and units appropriate for the length measured
Math 3 Find Perimeter of Polygons	3.MD.8 (NY 4.G.3)	6		
Math 3 Find Area of Rectangles	3.MD.6 (NY 4.G.4)	7		Find the area of a rectangle by counting the number of squares needed to cover the rectangle
Math 3 Tell Time to the Minute	3.MD.1 (NY 3.M.9)	5	1st	Tell time to the minute using digital and analog clocks
Math 3 Graphing & Data	3.MD.3 (NY 3.S.7), (NY 3.S.8)	15	2nd, 1st	Read, interpret data in bar graphs and pictographs. Formulate conclusions and make predictions from graphs.

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Math 3 Whole, 1/2, and 1/4 inch & cm	3.MD.4 (NY 4.M.2)	6	2nd	Use a ruler to measure whole, half, and 1/4 inch plus cm).
Math 3 Calculate Elapsed Time in Hours	3.MD.1 (NY 4.M.9)	7		
Math 3 Calculate Elapsed Time in Days & Weeks	3.MD.1 (NY 4.M.10)	2		Using a calendar
Geometry				
RTI Probe	Common Core (NY Performance Indicator)	# of Activities	Support at Previous Grade Levels	Notes
Math 3 Shape Terminology	3.G* (NY3.G.1)	4	2nd	Define and use correct terminology when referring to shapes
Math 3 Congruence and Similarity	3.G* (NY 3.G.2)	8		Identify congruent and similar figures
Math 3 Identify and Name Polygons	3.G.1 (NY 4.G.1)	6	2nd	

* Not specific Common Core Language but need these skills to scaffold within the cluster.