

 Class:
 Student:
 Teacher/Observer:
 Observation #:

Math Observation Assessment Tool

Concepts	Checklist		Suggestions for Remediation	
	Option A:	Option B:	Specific:	General:
			(guides you to tables to help you identify errors students make and activities you can do based on the errors)	(guides you to some of the Classroom Activity Pages found within the broader concept areas)
	A = Needs attention	Ø = not present	Corresponding	Corresponding
	B = May need attention	E = emerging	Error Analysis Tables	Classroom Resources
	L = Does not need attention N/A = not applicable	\mathbf{M} = present	(relevant tables listed	
		N/A – not applicable	below in bide)	
Size	🗆 Big	□ Small	Numbers and Operations (N)	
	🗆 Bigger	\Box Smaller	[1, 4, 5, 9]	Measurement-area
	🗆 Biggest	□ Smallest	Patterning and Algebra (PA)	
	🗆 Large	🗆 Little	[1 , 2]	
	🗆 Larger	🗆 Medium	Measurement (M)	
	🗆 Largest		[1 , 2 , 3 , 4 , 5]	Measurement-height/length
			Geometry (G)	
			[1 , 6]	
			Data Management and	Massurament-time
			Probability (DMP)	measurement-time
			[2 , 3]	

				Ordering
Shape	☐ Square ☐ Triangle ☐ Circle ☐ Rectangle	□ Diamond □ Oval □ Star □ + □ X	Patterning and Algebra (PA) [1, 2, 3, 5] Measurement (M) [1] Geometry (G) [1, 2, 3, 4, 5, 6] Data Management and Probability (DMP) [3]	Shapes
Quantity	□ Many □ More □ Some	□ Less □ All □ Equal	Numbers and Operations (N) [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12]	Measurement-area
	□ Same as □ Lots	□ Few □ Most □ None	Patterning and Algebra (PA) [1, 2, 3, 4, 5] Measurement (M)	Measurement-quantity
			[1, 2, 3, 4, 5] Geometry (G) [1, 2] Data Management and	Measurement-weight
			Probability (DMP) [2, 4, 5, 6]	Sorting-matching
Patterns: Sorting- Categorizing	$\Box A - B$ $\Box A - A - B$ $\Box A - B - C$	 Sorting Categorizing Organizing 	Numbers and Operations (N) [1, 4, 8] Patterning and Algebra (PA)	Graphs
	$\square A - B - C - D$		[1, 2, 3, 4] Measurement (M)	Patterns
			[2, 3, 4] Geometry (G) [1, 3, 5, 6]	Ordering

		Data Management and Probability (DMP)	Sorting
		[2, 3, 5, 6]	Sorting-categorizing
			Sorting-matching
			Sorting-same/different
Counting	 Comparison (Knowing which of two sets has more without counting) Counting (Rote counting with separate words, not necessarily in the correct order) Subitizing (perceiving number without counting) One-to-One Correspondence (saying one number for each object counted) Cardinality (knowing what the last word is when counting a set) Hierarchical Inclusion (knowing that smaller numbers are parts of bigger numbers) Number Conservation (knowing that the number of objects remains the same even when they are arranged and rearranged) Compensation (seeing parts of the whole and then compensating) Unitizing (knowing that numbers can be arranged in groups, which can in turn (knowing that numbers can be arranged in groups, which can in turn 	Numbers and Operations (N) [1, 2, 3, 4, 5, 6, 7, 8, 9] Patterning and Algebra (PA) [2, 3, 4] Geometry (G) [1, 4] Data Management and Probability (DMP) [1, 2, 3, 4]	Counting

Sequencing/Planning	 First – next – last Beginning – middle – end 	 Before – after Yesterday – today – tomorrow 	Numbers and Operations (N) [1, 4] Patterning and Algebra (PA) [1, 2, 3] Geometry (G) [2, 4, 5] Data Management and Probability (DMP) [2, 3, 4, 5]	Ordering Patterns
Number Writing	 Write numbers from 1 to Write numbers from 	10 _ to	Use <u>"Write Numbers</u> <u>Assessment Sheet"</u> to support your teaching.	No classroom activity pages in MILE.
Position	 Up Down Above Under Below Between Next to Beneath In front of 	 Behind Beside Near Far Beginning Middle End Right Left 	Numbers and Operations (N) [4] Patterning and Algebra (PA) [1, 2] Measurement (M) [2, 3, 4] Geometry (G) [5, 6] Data Management and Probability (DMP) [1]	Ordering Patterns
Symbolic Understanding	 + means: "to put together" (plus) - means: "to take away" (minus) = is the same as (equals) x means: "counting by equal groups" (times) ./. means: "separate in equal groups" (divide) 	 Recognize number vs. letter Recognize number sh 1 to 10 Recognize numbers sl 1 to 100 Recognize number sh > 100 	apes If this checklist shows a gap in understanding symbols, work on the weaker symbol skills while doing exercises you chose to improve other skills. For instance, you can emphasize recognizing and understanding signs when	No classroom activity pages in MILE.

		working on addition or subtraction.	
Addition and Subtraction	Understand: adding isUnderstand: understandjoining two or morethat subtraction is takingcollections togetheraway, and the difference	Numbers and Operations (N) [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11]	Addition/Subtraction
	Understand: a quantity canbetween two numbersbe thought of in partsExplaining subtraction	Patterning and Algebra (PA)	Measurement
	(Part-Part-Whole) thinking out loud Explain addition thinking Subtraction facts: up to 10 out loud	Data Management and Probability (DMP)	Number Line
	 Addition facts: up to 10 Addition facts: up to 20 Addition facts: up to 20 Regrouping Applied Problem Solving (i.e., word problems) Place value: 10's Subtractions facts: up to 20 Subtractions facts: up to 20 Regrouping Applied Problem Solving (i.e., word problems) 	[1, 2]	Place Value
	 Place value: 100's Place value: 1000's 		Regrouping
Multiplication and Division	 Understand that multiplication is when we repeat equal quantities Multiplication tables 	Numbers and Operations (N) [7, 9, 12] Patterning and Algebra	Graphs
 Strategies for single-digit multiplication Strategies for multiple-digit multiplication 		(PA) [3, 4, 5]	Measurement
	 Divide a number among equal groups Equal groups with remainder 	Data Management and Probability (DMP)	Multiplication/Division
	 Strategies for single-digit division Strategies for long division 		Sorting

				Fractions
Cognitive Foundational Skills	Take in InformationFocused perceptionSystematic ExplorationCorrect orientation in space2+ pieces of informationConsider all availableinformation	Process Information Recognize problem - spontaneously Recognize problem - after being told Attend to relevant information	Use the <u>"Eight Cognitive</u> <u>Foundation Skills"</u> and <u>"Suggestions for</u> <u>Remediating Cognitive</u> <u>Foundational Skills"</u> sheets to support your teaching.	No classroom activity pages in MILE.
		Communication Information Responds after thinking it through 		