

New Mexico Public Education Department

Student Success Division

2011-2012

Grades K-8 Mathematics Reflective Summary

K-8 schools are challenged to create classroom environments that support student interest and motivation to engage in school-based mathematics tasks. The ultimate goal of mathematics is making sense of and representing the quantitative aspects of the natural world; thus, mathematics programs in our K-8 schools must support students in reaching this goal.

The intent of the Grades K-8 Mathematics Reflective Summary is to provide a LEA and school teams, through a collaborative conversation to review their school wide numeracy system, looking at the effectiveness of the instruction and alignment with the curriculum, making discoveries about numeracy and mathematical competence.

Step-By-Step Process Using a Team Approach

The questions asked in Grades K-8 Mathematics Reflective Summary are designed to help a group develop a "team" perspective. Teams work best when members agree at the outset on the rules for working together. However, what the team members agree to is not as important as the process they go through together to reach the agreements.

Team agreements might include:

- · One voice at a time
- No side conversations
- · All opinions are respected
- Start and stop on time
- Use consensus rather than majority rule to make final decisions

For the purpose of this tool it is recommended that the district and school leadership complete this collaboratively.

Tasks

- 1. Complete the table on page five identifying LEA and school leadership team members who participated in the Grades K-8 Mathematics Reflective Summary
- 2. Workings as a team read each question and through consensus, assign a rating scale.

Rating Scale Examples

Each of the questions asks participants to self identify on a rating scale where they feel they are currently based on evidence.

In this example, 1.1, teams are asked to reflect on the shifts in mathematics instruction in the area of focus. Thinking about math teachers, do they provide students sufficient time to think, practice and integrate new ideas into their growing knowledge structure.

- If there is consensus that teachers provide sufficient time to think, practice and integrate new ideas into their growing knowledge structure you would choose yes.
- If there is consensus that teachers do not provide sufficient time to think, practice and integrate new ideas into their growing knowledge structure you would choose no.

The for and a Stand areas under	cin Mathematics Instruction collowing shifts represent key areas of emphasis as teachers dministrators work to implement the Common Core State ards for Mathematics. Establishing a statewide focus in these can help schools and districts develop a common estanding of what is needed in mathematics instruction as they forward with implementation.	Yes/No	Next Steps for LEA/School to Increase Level of Implementation
1.1	Focus Teachers provide students sufficient time to think, practice and integrate new ideas into their growing knowledge structure.	Choose an item. Choose an item. Yes No	LEA: Click here to enter text School: Click here to enter text
	nents: here to enter text		

Comments and Next Steps for LEA/School to Increase Level of Implementation

Each question asks for two additional steps.

- 1. The first is to identify what the LEA and the School will do next to increase their level of implementation.
- 2. At the bottom of each question is a comments box, here teams can decide to add any additional supporting information to clarify, explain, etc.

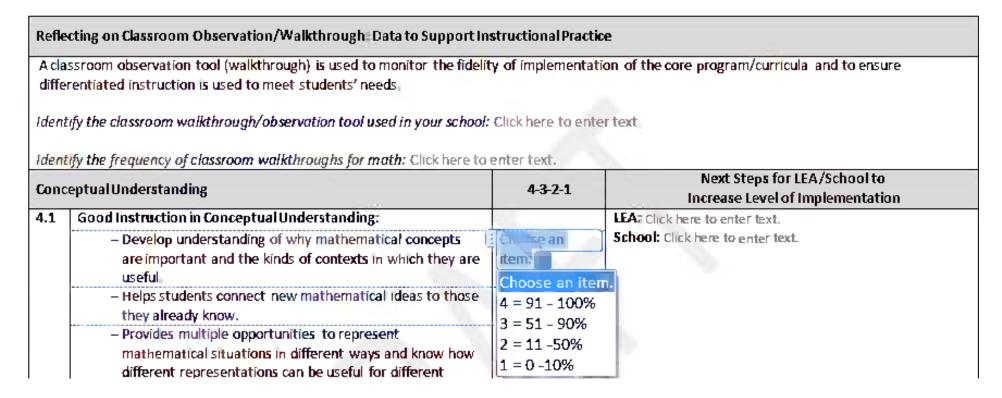
Instru	ctional Practice	4-3-2-1	Next Steps for LEA/School to Increase Level of Implementation
1.1	Universal screening occurs during the first month of school to identify which students are at a high risk academically and/or behaviorally.	Choose an Item.	LEA: Click here to enter text. School: Click here to enter text.
Comm	ents ere to enter text.	197	

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In example 4.1, teams are asked to reflect on the information they are gathering from their classroom walkthroughs. The question in 4.1 asks for teams to drill down as to what good instruction in conceptual understanding would look like in a classroom. There are 3 sub bullets to rank using a percentage.

- If 91 % of your teachers have been observed in walkthrough's to develop understanding of why mathematical concepts are important and the kinds of contexts in which they are useful, you would choose number 4.
- If 70 % of your teachers have been observed in walkthrough's to develop understanding of why mathematical concepts are important and the kinds of contexts in which they are useful, you would choose number 3.
- If 35 % of your teachers have been observed in walkthrough's to develop understanding of why mathematical concepts are important and the kinds of contexts in which they are useful, you would choose number 2.



Saving Your Grades K-8 Math Reflective Summary

- 1. Once you have completed the Grades K-8 Math Reflective Summary as a team, save a copy of the Grades K-8 Math Reflective Summary review in PDF form and upload it to your Web EPSS filing cabinet under your reading goal using the following corresponding name:
 - (Insert name of school) Grades K-8 Math Reflective Summary (insert date)
 - e.g., ABC High School Grades K-8 Math Reflective Summary 01.10.2012

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Date of Initial Visit	Meeting Location	Onsite Visit C	ompleted by:
Click here to enter a date.	Click here to enter text.	Choose an item.	Choose an item.

LEA Leadership Team Members						
Name	Position	Email	Contact Phone Number			
Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.			
Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.			
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Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.			
Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.			

	School Leadership Team						
Name	Position	Email	Contact Phone Number				
Click here to enter text.							
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Click here to enter text.							

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		K-8 Mathema	tics Re	eflective Summa	ary	
LEA/S	State Charter Name:	School Name:		NMPED Support Personnel:		
Choos	se an item.	Click here to enter text.		Choose an item.	Click here to enter text.	
The for and a Stand areas under	in Mathematics Instruction ollowing shifts represent key are dministrators work to implement ards for Mathematics. Establish can help schools and districts destanding of what is needed in mathematics with implementation.	nt the Common Core State ning a statewide focus in these evelop a common		Yes/No	Next Steps for LEA/School to Increase Level of Implementation	
1.1	Focus Teachers provide students suff and integrate new ideas into the structure. Tents:		Choos	e an item.	LEA: Click here to enter text. School: Click here to enter text.	
	nere to enter text.					
1.2	Coherence Classroom instruction is inform progression students are follow	•	Choos	e an item.	LEA: Click here to enter text. School: Click here to enter text.	
Comn	nents:	<u> </u>	1			
Click h	nere to enter text.					
1.3	Fluency Teachers are aware of and abl building blocks that develop u skills along the way to fluency	nderstanding in tandem with	Choos	e an item.	LEA: Click here to enter text. School: Click here to enter text.	
Comn	nents:					
Click h	nere to enter text.		1			
1.4	Deep Understanding Teachers teach more than "ho instead support students' abil number of perspectives.	· ·	Choos	e an item.	LEA: Click here to enter text. School: Click here to enter text.	
	Students demonstrate deep core math concepts by applying well as writing and speaking a	ng them to new situations, as	Choos	e an item.		

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Comn	nents:						
Click h	Click here to enter text.						
1.5	Applications		LEA: Click here to enter text.				
	Students are expected to use math and choose the	Choose an item.	School: Click here to enter text.				
	appropriate concept for application even when they are not						
	prompted to do so.						
	Teachers provide opportunities at all grade levels for	Choose an item.					
	students to apply math concepts in "real world" situations.						
	Teachers in content areas outside of math, particularly	Choose an item.					
	science, ensure that students are using math – at all grade						
	levels – to make meaning of and access content.						
Comn	nents:						
	nere to enter text.	1					
1.6	Dual Intensity		LEA: Click here to enter text.				
	Students are practicing and understanding.	Choose an item.	School: Click here to enter text.				
	There is more than a balance between these two things in	Choose an item.					
	the classroom – both are occurring with intensity.						
	Teachers create opportunities for students to participate in	Choose an item.					
	application "drills" and make use of those skills through						
	extended application of math concepts.						
	The amount of time and energy spent practicing and	Choose an item.					
	understanding learning environments is driven by the						
	specific mathematical concept and therefore, varies						
	throughout the given school year.						
Comn	nents:						
Click h	nere to enter text.						

Instru	ctional Practice	4-3-2-1	Next Steps for LEA/School to Increase Level of Implementation
1.1	Universal screening occurs during the first month of school to identify which students are at a high risk academically and/or behaviorally.	Choose an item.	LEA: Click here to enter text. School: Click here to enter text.
Comm			
	ere to enter text.	T	
1.2	The classroom teacher delivers the core mathematics program/curricula in a systematic manner adhering to the fidelity of the program/curricula.		LEA: Click here to enter text. School: Click here to enter text.
	- The core math program aligned to standards, both content & process	Choose an item.	
	 The leadership team members identified and articulated what "fidelity to math program" looks like 	Choose an item.	
Comm	ents:		
	ere to enter text.	T	
1.3	The core mathematics program meets the needs of 80-85% of students to attain grade-level or above math proficiency rates.	Choose an item.	LEA: Click here to enter text. School: Click here to enter text.
Comm Click he	ents: ere to enter text.		
1.4	Core classroom teachers provide ample opportunities for students to respond and demonstrate the mathematics they are learning.	Choose an item.	LEA: Click here to enter text. School: Click here to enter text.
Comm	ents:		
Click he	ere to enter text.		
1.5	Teachers use flexible grouping to deliver differentiated instruction to students as needed.	Choose an item.	LEA: Click here to enter text. School: Click here to enter text.
Comm Click he	ents: ere to enter text.		
1.6	The core mathematics program at each grade level includes:		LEA: Click here to enter text. School: Click here to enter text.
	 Whole group instruction. 	Choose an item.	
	– Small group instruction.	Choose an item.	
	 Collaborative learning: students working in small groups to solve a rich math problem and share their findings with 	Choose an item.	

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	the class.		
Comm	ents:		
Click h	ere to enter text.		
1.7	A mathematics classroom observation tool (walkthrough) is	Choose an item.	LEA: Click here to enter text.
	used to monitor the fidelity of implementation of the core		School: Click here to enter text.
	program/curricula and support teachers in areas that need		
	improvement.		
	Identify the classroom walkthrough/observation tool used in		
	your school: Click here to enter text.		
Comm			
	ere to enter text.	Claracter it and	T
1.8	Core mathematics program includes benchmark assessments for	Choose an item.	LEA: Click here to enter text.
	all students three times a year - fall (two weeks after school		School: Click here to enter text.
	begins), winter and spring.		
	Identify the name of the benchmark assessment used in your		
	school: Click here to enter text.		
	Identify the frequency of the benchmark assessment: Click here		
	to enter text.		
Comm	ents:		
Click h	ere to enter text.		
1.9	Periodic assessment data, which include benchmark	Choose an item.	LEA: Click here to enter text.
	assessments and common grade-level assessments, is used to		School: Click here to enter text.
	determine intervention strategies for students needing		
	additional support.		
Comm			
	ere to enter text.		
	gic/Supplemental		
	gic/Supplemental intervention addresses the needs of students who		New Charafa 154 (Calarata
	t progressing adequately in the core mathematics program.	4-3-2-1	Next Steps for LEA/School to
	lized, scientifically based research is utilized when working with		Increase Level of Implementation
	nts in homogenous small-group instruction for a minimum of 30		
Tunut	es per day, in addition to the minimum of 75 minutes of core		

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exhibit low early numeracy skills and are at-risk for difficulty in mathematics. Comments: Click here to enter text. Denote to enter text. Click here to enter text. Click here to enter text. Cloose an item. Description one to two weeks after the start of the school year to provide baseline data for every student. Comments: Click here to enter text. Choose an item. Description of a minimum of 30 minutes per day, in addition to the minimum of 75 minutes of core mathematics instruction. Comments: Click here to enter text. Choose an item. Description of the minimum of 30 minutes per day, in addition to the minimum of 75 minutes of core mathematics instruction. Comments: Click here to enter text. Choose an item. Description of the progress monitoring on targeted concepts and skill(s) to ensure adequate progress is being made by each student is implemented by teachers or interventionist. Comments: Click here to enter text. Click here to enter text. Choose an item. LEA: Click here to enter text. School: Click here to enter text.	mathe	matics instruction.		
Benchmark and diagnostic assessments are completed within one to two weeks after the start of the school year to provide baseline data for every student.	2.1	exhibit low early numeracy skills and are at-risk for difficulty in	Choose an item.	
Benchmark and diagnostic assessments are completed within one to two weeks after the start of the school year to provide baseline data for every student. Comments: Click here to enter text. Specialized, scientifically based research is utilized when working with students in homogenous small-group instruction for a minimum of 30 minutes per day, in addition to the minimum of 75 minutes of core mathematics instruction. Comments: Click here to enter text. Choose an item. LEA: Click here to enter text. School: Click here to enter text. Choose an item. LEA: Click here to enter text. School: Click here to enter text. School: Click here to enter text. Choose an item. LEA: Click here to enter text. School: Click here to enter text. Choose an item. School: Click here to enter text. School: Click here				
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2.5 The supplemental interventionist is a classroom teacher, a specialized mathematics teacher or an external interventionist, specifically trained to implement supplemental interventions. Comments: Click here to enter text. Click here to enter text. Choose an item.	Comm		1	
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possible, and no later than the third or fourth week of school. School: Click here to enter text.	Click he	ere to enter text.		
Comments:	2.7	_ , .	Choose an item.	
	Comm	ents:		

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Click h	ere to enter text.		
2.8	Progress-monitoring information is used to adjust daily classroom instruction, and as a measurement for exiting students when appropriate to ensure fluidity.	Choose an item.	LEA: Click here to enter text. School: Click here to enter text.
Comn	nents:		
Click h	ere to enter text.		
2.9	Teachers keep a documented record of the intervention and progress-monitoring data being used for each student.	Choose an item.	LEA: Click here to enter text. School: Click here to enter text.
Comn Click h	nents: ere to enter text.		
minim not m interv	sive ive intervention is generally for students who have received a ium of 6 – 8 weeks of consistent supplemental instruction and have ade adequate progress. The interventionist delivers the selected ention program in a direct, explicit and systematic manner adhering fidelity of the program/curriculum.	4-3-2-1	Next Steps for LEA/School to Increase Level of Implementation
3.1	A data driven decision must be made about the student's instructional needs before the Intensive intervention is begun to ensure the intervention will meet the needs of the student.	Choose an item.	LEA: Click here to enter text. School: Click here to enter text.
Comn	nents:	-	
Click h	ere to enter text.		
3.2	One round of intensive instruction occurs five days a week for a minimum of ten to twelve weeks.	Choose an item.	LEA: Click here to enter text. School: Click here to enter text.
Comn		•	
3.3	Intensive intervention is provided daily (five days a week) through a minimum of thirty minutes of intensive, focused instruction aligned to the mathematics conceptual and skill level of the student.	Choose an item.	LEA: Click here to enter text. School: Click here to enter text.
Comn		ı	
Click h	ere to enter text.		
3.4	Based on data, Intensive intervention groups are organized according to the specific mathematics concepts and skills being targeted for each student within the group.	Choose an item.	LEA: Click here to enter text. School: Click here to enter text.

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Comn			
3.5	Intensive intervention groups must be flexible as instructional priorities for individual students may change based on progress monitoring data.	Choose an item.	LEA: Click here to enter text. School: Click here to enter text.
Comn			
Click h	ere to enter text.		
3.6	Teachers document a record of the intervention and progress- monitoring data for each student in the Intensive intervention group(s).	Choose an item.	
Comn	nents:		
Click h	ere to enter text.	_	
3.7	Intensive intervention groups do not exceed three to five students.	Choose an item.	LEA: Click here to enter text. School: Click here to enter text.
Comn	nents:	1	
Click h	ere to enter text.		
3.8	Intensive intervention is systematic and explicit (instruction with modeling, multiple examples, and frequent and specific feedback to individual students) as well as being aligned with state content standards.	Choose an item.	LEA: Click here to enter text. School: Click here to enter text.
Comn	nents:	I	
Click h	ere to enter text.		
Reflec	cting on Classroom Observation/Walkthrough: Data to Support Instr	uctional Practice	2
differ	ssroom observation tool (walkthrough) is used to monitor the fidelity rentiated instruction is used to meet students' needs. fy the classroom walkthrough/observation tool used in your school: C	·	
Identi	fy the frequency of classroom walkthroughs for math: Click here to er	iter text.	
	eptual Understanding	4-3-2-1	Next Steps for LEA/School to Increase Level of Implementation
4.1	Good Instruction in Conceptual Understanding:		LEA: Click here to enter text.

 Develop understanding of why mathematical concepts 	Choose an	School: Click here to enter text.	1
are important and the kinds of contexts in which they are	item.		1
useful.			1
 Helps students connect new mathematical ideas to those 	Choose an		1
they already know.	item.		1
 Provides multiple opportunities to represent 	Choose an		1
mathematical situations in different ways and know how	item.		1
different representations can be useful for different			i
purposes.			1

Comments:

Click here to enter text.

Procedural Fluency		Yes/No	Next Steps for LEA/School to Increase Level of Implementation
4.2	Good Instruction in Procedural Fluency:		LEA: Click here to enter text.
	 Develops knowledge of procedures, knowledge of when and how to use them appropriately, and skill in performing them flexibly, accurately and efficiently. 	Choose an item.	School: Click here to enter text.
	 Provides opportunities for students to analyze the similarities and differences between methods of calculating (e.g., written, mental, manipulatives, calculators, spreadsheets, etc.). 	Choose an item.	
	 Develops knowledge of estimation, including how to efficiently and accurately estimate the results of calculations, as well as how to determine when estimation is appropriate. 	Choose an item.	

Comments:

Click here to enter text.

Strategic Competence/Problem Solving		Yes/No	Next Steps for LEA/School to
4.3	Good Instruction in Problem Solving:		Increase Level of Implementation LEA: Click here to enter text.
	 Provides opportunities for students to figure out, 	Choose an	School: Click here to enter text.
	formulate and solve their own mathematical problems	item.	
	from real-world situations.		

	 Requires students to develop a "toolkit" of solution 	Choose an	
	strategies and the reasoning ability to know which	item.	
	strategies are best suited to solve particular problems.		
	 Requires students to generate mental models of 	Choose an	
	problems; represent those models either numerical,	item.	
	symbolically, verbally or graphically; and then solve those		
	problems.		
Comr	ments:		
Click h	nere to enter text.		
Adap	tive Reasoning	Yes/No	Next Steps for LEA/School to Increase Level of Implementation
4.4	Good Instruction in Adaptive Reasoning:		LEA: Click here to enter text.
	 Requires students to communicate, explain and justify 	Choose an	School: Click here to enter text.
	their mathematical reasoning in multiple ways (e.g.,	item.	
	verbally, written, with manipulatives, graphs, tables,		
	symbols, etc.)		
	 Provides opportunities for students to connect new 	Choose an	
	learning to concepts and procedures they already know	item.	
	well.		
	 Provides opportunities for students to reflect on and 	Choose an	
	refine their reasoning and problem solving strategies.	item.	
	Comments:		
	Click here to enter text.		
Produ	active Disposition	Yes/No	Next Steps for LEA/School to Increase Level of Implementation
4.5	Good Instruction in Productive Disposition:		LEA: Click here to enter text.
	 Provides myriad opportunities for students to make sense 	Choose an	School: Click here to enter text.
	of mathematics and experience the satisfaction of	item.	
	knowing that mathematics is comprehensible and		
	accessible to them and not just arbitrary facts and		
	procedures to memorize.		
	 Develops a disposition that perseverance in mathematical 	Choose an	
	problem solving results in sense making and connecting	item.	
	ideas, which develops mathematical competence.		
	1	I	

		1	
	 Helps students to develop a positive attitude about 	Choose an	
	themselves as mathematical learners.	item.	
	nents:		
Click	nere to enter text.		
Comi	nunication with Parents Regarding Transition Benchmarks	Yes/No	Next Steps for LEA/School to Increase Level of Implementation
4.6	Parents are notified when their child is identified either as At	Choose an item.	LEA: Click here to enter text.
	Risk or Some Risk on the benchmark assessments administered		School: Click here to enter text.
	at the beginning of the school year, middle of the school year, or		
	at the end of the school year.		
Comi	nents:		
Click	nere to enter text.		
4.7	Parents are informed when their child (phone call, conference,	Choose an item.	LEA: Click here to enter text.
	and letter) is unsuccessful in the core curriculum and moves on		School: Click here to enter text.
	to supplemental instruction.		
Comi	nents:		
Click l	nere to enter text.		
4.8	Parents are informed as to what type of performance data will	Choose an item.	LEA: Click here to enter text.
	be collected, and how frequently; what general education		School: Click here to enter text.
	services are to be provided; and what strategies the school will		
	use to increase the child's rate of learning in order to bring the		
	child to grade level.		
Comi	nents:		
Click I	nere to enter text.		
4.9	Parents are notified in writing no later than one week after the	Choose an item.	LEA: Click here to enter text.
	administration of the winter benchmark assessment that their		School: Click here to enter text.
	child is at risk for not being proficient in mathematics on the		
	state assessment.		
Comi	nents:		
Click I	nere to enter text.		
4.10	A conference is held for each student whose parent(s) are	Choose an item.	LEA: Click here to enter text.
	notified in writing that their child is not academically proficient		School: Click here to enter text.
	to discuss strategies, supports, and services available to assist		
	the student in becoming academically proficient.		
Comi	nents:		

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Click here to enter text.				
4.11	An academic improvement plan is developed that contains timelines, academic expectations and measurements to be used to support the student in overcoming academic deficiencies.	Choose an item.	LEA: Click here to enter text. School: Click here to enter text.	
	Comments: Click here to enter text.			

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