LEA Reflective Summary: 9 – 12 Mathematics



New Mexico Public Education Department

Student Success Division

2011-2012

Grades 9 - 12 Math Reflective Summary

Step-By-Step Process

Using a Team Approach

The questions asked in the Grades 9 - 12 Math 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 six identifying district and school leadership team members who participated in the 9-12 Math Reflective Summary.
- 2. Workings as a team read each question and through consensus, assign a rating.
- 3. Identify next steps that the LEA and the school will take to increase the level of implementation of each question.

Rating Scale Examples

Each of the questions asks participants to self identify on either a rating scale of 1-4 or yes/no where they feel they are currently based on evidence.

| 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 lards for Mathematics. Establishing a statewide focus in these can help schools and districts develop a common restanding of what is needed in mathematics instruction as they of 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 |
| | ments: here to enter text. | | |

The shifts in Mathematics instruction **represent key areas of emphasis** as teachers and administrators work to implement the Common Core State Standards (CCSS) for Mathematics. Establishing a statewide focus in these areas can help schools and districts develop a common understanding of what is needed in mathematics instruction as they move forward with implementation. We are using a rating scale of yes/no as a conversation starter to draw attention to the changes in implementing the CCSS for Mathematics.

Example 2.1 asks teams to identify how many grade level mathematics teachers model for students how math concepts are used to solve problems in real-life situations.

- If math teachers in all grade levels model for students how concepts are used to solve problems in real-life situations, you would choose number 4.
- If math teachers in 3 grade levels model for students how concepts are used to solve problems in real-life situations, you would choose number 3.
- If math teachers in 1-2 grade levels model for students how concepts are used to solve problems in real-life situations, you would choose number 2.
- If math teachers in no grade levels model for students how concepts are used to solve problems in real-life situations, you would choose number 1.

| ıstrı | uctional Practice | 4-3-2-1 | Next Steps for LEA/School to Increase Level of Implementation |
|-------|--|--|--|
| .1 | Mathematics teachers model for students how mathematics concepts are used to solve problems in real-life situations. | Choose an item. | |
| | Essential questions connect to student life. | 4 = all grade levels 3 = 3 grade levels | LEA: Click here to enter text School: Click here to enter text. |
| | Real world problems observed. | 2 = 1-2 grade levels | Silver de cher est |
| | Students using manipulatives to solve problems. | 1 = no grade levels | |
| | Students work/products/projects posted/shown that require application. | Choose an item. | |
| | Students maintain journals with records of application problems. | Choose an item. | |
| | Assessments include application problems. | Choose an item. | |
| | Teachers clearly connect math to real-world applications: | Choose an item. | |
| | Students volunteer "context" for how math is used in real world. | Choose an item. | |

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

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- 1. The first is to identify what the LEA district 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.

| The for and a Stand areas under | in Mathematics Instruction cllowing 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 standing 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. | LEAt Click here to enter text. School: Click here to enter text. |
| | nents: nere to enter text | | |

Saving Your Grades 9 – 12 Math Reflective Summary

- 1. Once you have completed the Grades 9 12 Math Reflective Summary as a team, save a copy of the Grades 9 12 Math Reflective Summary review in PDF form and upload it to your Web EPSS filing cabinet under your math goal using the following corresponding name:
 - (Insert name of school) Grades 9 12 Math Reflective Summary (insert date)
 - e.g., ABC High School Grades 9 12 Math Reflective Summary 01.10.2012

| 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. | | |
| 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. | | |
| 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. | | |
| 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. | | |

| | | 9 - 12 Litera | cy Ref | lective Summa | ry |
|--|---|---|--|---------------|---|
| LEA/State Charter Name: School Name: Choose an item. Click here to enter text. | | | NMPED Support Personnel: Choose an item. Click here to enter text. | | |
| The france and a Standareas under | s in Mathematics Instruction following shifts represent key are administrators work to impleme dards for Mathematics. Establists can help schools and districts of erstanding of what is needed in the forward with implementation. | ent the Common Core State thing a statewide focus in these develop a common mathematics instruction as they | | Yes/No | Next Steps for LEA/School to Increase Level of Implementation |
| 1.1 | Focus Teachers provide students sur and integrate new ideas into structure. | fficient time to think, practice their growing knowledge | Choos | se an item. | LEA: Click here to enter text. School: Click here to enter text. |
| | ments: | | | | |
| | here to enter text. | | | | |
| 1.2 | Coherence Classroom instruction is infor progression students are follows: | • | Choos | se an item. | LEA: Click here to enter text. School: Click here to enter text. |
| Com | ments: | | | | |
| Click | here to enter text. | | | | |
| 1.3 | Fluency Teachers are aware of and abbuilding blocks that develop skills along the way to fluence | understanding in tandem with | Choos | se an item. | LEA: Click here to enter text. School: Click here to enter text. |
| Com | ments: | | | | |
| Click | here to enter text. | | | | |
| 1.4 | Deep Understanding Teachers teach more than "h instead support students' abi number of perspectives. | ow to get the answer" and ility to access concepts from a | Choos | se an item. | LEA: Click here to enter text. School: Click here to enter text. |

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| | Students demonstrate deep conceptual understanding of | Choose an item. | |
|---------|---|-----------------|--|
| | core math concepts by applying them to new situations, as well as writing and speaking about their understanding. | | |
| Comn | nents: | | ' |
| Click h | nere 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: | | |
| Click h | nere to enter text. | | |
| L.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. | | |
| nstru | ctional Practice | 4-3-2-1 | Next Steps for LEA/School to Increase Level of Implementation |
| 2.1 | Mathematics teachers model for students how mathematics | Choose an item. | |
| | | | |

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| | | 1 | |
|---------|--|-----------------|---------------------------------------|
| | concepts are used to solve problems in real-life situations. | | |
| | Essential questions connect to student life. | Choose an item. | LEA: Click here to enter text. |
| | Real world problems observed. | Choose an item. | School: Click here to enter text. |
| | Students using manipulatives to solve problems. | Choose an item. | |
| | Students work/products/projects posted/shown that require application. | Choose an item. | |
| | Students maintain journals with records of application problems. | Choose an item. | |
| | Assessments include application problems. | Choose an item. | |
| | Teachers clearly connect math to real-world applications. | Choose an item. | |
| | Students volunteer "context" for how math is used in real world. | Choose an item. | |
| Comn | | I. | |
| Click h | nere to enter text. | | |
| 2.2 | Students use a graphing calculator to complete mathematics | Choose an item. | LEA: Click here to enter text. |
| | assignments monthly. | | School: Click here to enter text. |
| | Calculators/technology in use/evidence of recent use. | Choose an item. | |
| | Independent calculator use observed. | Choose an item. | |
| | Calculator use embedded within lessons. | Choose an item. | |
| | Teacher models use of calculators. | Choose an item. | |
| | Calculator use noted in lesson plans. | Choose an item. | |
| | Problems require calculator use beyond basic arithmetic functions. | Choose an item. | |
| Comn | nents: | | |
| Click h | nere to enter text. | | |
| 2.3 | Students complete a mathematics project monthly that uses | Choose an item. | LEA: Click here to enter text. |
| | mathematics that replicate a real life/work setting. | | School: Click here to enter text. |
| | Quality projects displayed in room. | Choose an item. | |
| | — Evidence of project rubrics observed. | Choose an item. | |

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| | Technology (spreadsheets, word processing) produced by students. | Choose an item. | |
|---------|---|-----------------|---------------------------------------|
| | Students working in teams on projects. | Choose an item. | |
| | Evidence/artifacts of student brainstorming. | Choose an item. | |
| | Projects involve real world items including money, | Choose an item. | |
| | time, speed, distance. | | |
| Comm | ents: | | |
| Click h | ere to enter text. | | |
| 2.4 | Students orally defended a process they used to solve a | Choose an item. | LEA: Click here to enter text. |
| | mathematics problem monthly. | | School: Click here to enter text. |
| | Students develop presentations. | Choose an item. | |
| | Students required justifying projects, problems. | Choose an item. | |
| | Evidence of journals, timelines, summaries. | Choose an item. | |
| | Teachers/students make connections with other | Choose an item. | |
| | courses and the community. | | |
| | Students brainstorm strategies to solve open ended | Choose an item. | |
| | problems. | | |
| | Students use diagrams/illustrations to explain. | Choose an item. | |
| Comm | | | |
| | ere to enter text. | T | |
| 2.5 | Students engage in cooperative groups monthly on | Choose an item. | LEA: Click here to enter text. |
| | challenging mathematics assignments, and receive a group | | School: Click here to enter text. |
| | and individual grade. | Choose an item. | |
| | Students interacting with each other as well as working independently. | Choose an item. | |
| | Physical setting/arrangement facilitates teamwork. | Choose an item. | |
| | | Choose an item. | |
| | Evidence of a process through team-building, projects or problem-solving. | Choose an item. | |
| | Evidence of a process through display of student work. | Choose an item. | |
| | Evidence of a process of final products. | Choose an item. | |
| | · | Choose an item. | |
| | — Scoring guides, rubrics for individual and group grades. MRED Student Success Division S Priority Schools Byroon S 0.12 M. | | |

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| Comn | nents: | | |
|---------|---|-----------------|--|
| Click l | nere to enter text. | | |
| 2.6 | Students work in groups to brainstorm how to solve a mathematics problem monthly. | Choose an item. | LEA: Click here to enter text. School: Click here to enter text. |
| | Varied assessments- authentic, real world problems, performance events. | Choose an item. | |
| | Teachers use primary source documents including newspapers and stock reports. | Choose an item. | |
| | Groups solve real world problems, cross curricular projects. | Choose an item. | |
| | Students raise original questions in discussions. | Choose an item. | |
| | Teachers/students connect topics within mathematics. | Choose an item. | |
| | Artifacts from the real world used in class. | Choose an item. | |
| | Speakers from the real world. | Choose an item. | |
| | nents: nere to enter text. | | |
| 2.7 | Students solve mathematics problems with more than one | Choose an item. | LEA: Click here to enter text. |
| | possible answer monthly. | | School: Click here to enter text. |
| | Socratic strategies in use. | Choose an item. | |
| | Teacher poses questions that encourage exploring possible solutions. | Choose an item. | |
| | Students allowed to raise questions. | Choose an item. | |
| | Students required to justify answers. | Choose an item. | |
| | Students working in groups to test solutions. | Choose an item. | |
| | Students communicate math ideas to one another verbally and in writing. | Choose an item. | |
| | nents: nere to enter text. | | |
| 2.8 | Students solve mathematic problems other than those | Choose an item. | LEA: Click here to enter text. |
| 2.0 | found in the textbook monthly. | choose an item. | School: Click here to enter text. |

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| Students complete projection groups. | cts either individually or in | Choose an item. | |
|---|--------------------------------|-----------------|---------------------------------------|
| Students complete open- | ended problems with | Choose an item. | |
| explanations. | · | | |
| Examinations/quizzes inc | lude open-ended problems. | Choose an item. | |
| Open-ended projects and | d student work displayed. | Choose an item. | |
| Project-based learning ac | tivities link to other content | Choose an item. | |
| areas. | | | |
| Comments: | | | |
| Click here to enter text. | | | |
| 2.9 Teachers clearly indicate the a | · · · · | Choose an item. | LEA: Click here to enter text. |
| necessary to earn a passing gra | ide at the beginning of a | | School: Click here to enter text. |
| project or unit. | | | |
| Standards/essential ques | | Choose an item. | |
| Rubrics developed and of | | Choose an item. | |
| — Quality student work pos | ited with qualifiers. | Choose an item. | |
| Students see samples of | exemplary student work. | Choose an item. | |
| Common exams in use. | | Choose an item. | |
| Comments: | | | |
| Click here to enter text. | | | |
| 2.10 Teachers were frequently avail | | Choose an item. | LEA: Click here to enter text. |
| school to help them with math | | | School: Click here to enter text. |
| Students are required to | attend extra help | Choose an item. | |
| opportunities. | | | |
| Students are assigned to | <u> </u> | Choose an item. | |
| Re-teaching occurs using | approaches that vary from | Choose an item. | |
| traditional classroom. | | | |
| Formative assessments u | sed as diagnostic tools. | Choose an item. | |
| Individual learning/growth | th plans developed based on | Choose an item. | |
| assessment needs. | | | |
| | | | <u> </u> |

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Reflecting on Classroom Observation/Walkthrough: Data to Support Instructional Practice

A classroom observation tool (walkthrough) is used to monitor the fidelity of implementation of the core program/curricula and to ensure differentiated instruction is used to meet students' needs.

Identify the classroom walkthrough/observation tool used in your school: Click here to enter text.

Identify the frequency of classroom walkthroughs for math: Click here to enter text.

| Conceptual Understanding | | 4-3-2-1 | Next Steps for LEA/School to Increase Level of Implementation |
|--------------------------|--|-----------|--|
| 3.1 | 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. |
| | are important and the kinds of contexts in which they are useful. | item. | |
| | Helps students connect new mathematical ideas to those | Choose an | |
| | they already know. | item. | |
| | Provides multiple opportunities to represent | Choose an | |
| | mathematical situations in different ways and know how | item. | |
| | different representations can be useful for different | | |
| | purposes. | | |

Comments:

Click here to enter text.

| CIICK I | Click here to enter text. | | |
|--------------------|---|-----------------|--|
| Procedural Fluency | | Yes/No | Next Steps for LEA/School to Increase Level of Implementation |
| 3.2 | 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. | |

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| Develops knowledge of estimation, including how to | Choose an | |
|--|-----------|--|
| efficiently and accurately estimate the results of | item. | |
| calculations, as well as how to determine when | | |
| estimation is appropriate. | | |

Comments:

Click here to enter text.

| Strategic Competence/Problem Solving | | Yes/No | Increase Level of Implementation |
|--------------------------------------|--|-----------|-----------------------------------|
| 3 | 3 Good Instruction in Problem Solving: | | 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. | | |
| | problems. | | |

Comments:

Click here to enter text.

| Adaptive Reasoning | | Yes/No | Next Steps for LEA/School to Increase Level of Implementation |
|--------------------|--|-----------------|---|
| 3.4 | Good Instruction in Adaptive Reasoning: | | LEA: Click here to enter text. |
| | Requires students to communicate, explain and justify their mathematical reasoning in multiple ways (e.g., verbally, written, with manipulatives, graphs, tables, symbols, etc.) | Choose an item. | School: Click here to enter text. |
| | Provides opportunities for students to connect new learning to concepts and procedures they already know well. | Choose an item. | |
| | Provides opportunities for students to reflect on and refine their reasoning and problem solving strategies. | Choose an item. | |

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| | Comments: | | |
|-------|---|-----------------|--|
| | Click here to enter text. | | |
| Prod | Productive Disposition | | Next Steps for LEA/School to Increase Level of Implementation |
| 3.5 | Good Instruction in Productive Disposition: | | LEA: Click here to enter text. |
| | Provides myriad opportunities for students to make sense of mathematics and experience the satisfaction of knowing that mathematics is comprehensible and accessible to them and not just arbitrary facts and procedures to memorize. | Choose an item. | School: Click here to enter text. |
| | Develops a disposition that perseverance in mathematical | Choose an | |
| | problem solving results in sense making and connecting | item. | |
| | ideas, which develops mathematical competence. | | |
| | Helps students to develop a positive attitude about | Choose an | |
| | themselves as mathematical learners. | item. | |
| | ments: here to enter text. | | |
| Com | munication with Parents Regarding Transition Benchmarks | Yes/No | Next Steps for LEA/School to Increase Level of Implementation |
| 4.1 | 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. | | |
| Com | ments: | | |
| | here to enter text. | | |
| 4.2 | Parents are informed when their child (phone call, conference, and letter) is unsuccessful in the core curriculum and moves on to supplemental instruction. | Choose an item. | LEA: Click here to enter text. School: Click here to enter text. |
| Com | ments: | | |
| Click | here to enter text. | | |
| 4.3 | Parents are informed as to what type of performance data will be collected, and how frequently; what general education services are to be provided; and what strategies the school will | Choose an item. | LEA: Click here to enter text. School: Click here to enter text. |

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| | use to increase the child's rate of learning in order to bring the | | | |
|-------|---|-----------------|---------------------------------------|--|
| | | | | |
| | child to grade level. | | | |
| | ments: | | | |
| | here to enter text. | | | |
| 4.4 | 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. | | | |
| Com | ments: | | | |
| Click | here to enter text. | | | |
| 4.5 | 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. | | | |
| Com | ments: | | | |
| Click | here to enter text. | | | |
| 4.6 | An academic improvement plan is developed that contains | Choose an item. | LEA: Click here to enter text. | |
| | timelines, academic expectations and measurements to be used | | School: Click here to enter text. | |
| | to support the student in overcoming academic deficiencies. | | | |
| Com | ments: | | | |
| | here to enter text. | | | |
| | | | | |

References

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