

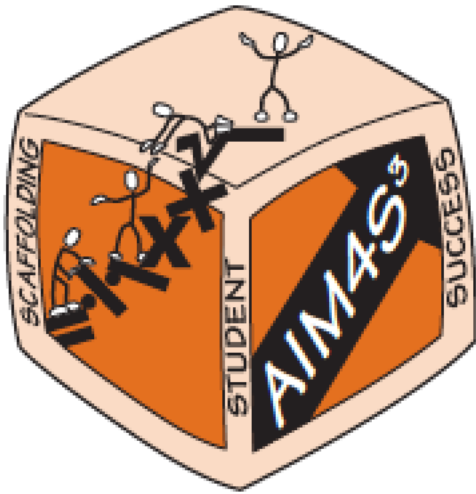
# NMTEACH EDUCATOR EFFECTIVENESS SYSTEM AND AIM4S<sup>3</sup>™: A BRIEF LOOK AT CLASSROOM PLANNING, INSTRUCTION AND THE FOUR DOMAINS



*Dual Language Education of New Mexico*  
*[www.dlenm.org](http://www.dlenm.org)*



# NMTEACH AND AIM4S<sup>3</sup>



During administrator trainings, we often hear that the Achievement Inspired Mathematics for Scaffolding Student Success Framework (AIM4S<sup>3</sup>) supports teachers in meeting the high expectations of the four domains in the NMTEACH rubrics. Following are pictures and artifacts from classroom teachers showing AIM4S<sup>3</sup> planning and instruction in action to support language learners.

# AIM4S<sup>3</sup> IN ACTION



## *Teaching for Learning*

- 3B:**
- Scaffold for a deep understanding of concepts, using academic language
  - Create opportunities for student-led discussion and debate of key concepts

## *Planning and Preparation*

- 1B:** Research-based practices, including sheltered and differentiated instructional strategies, with a variety of specially designed instructional materials

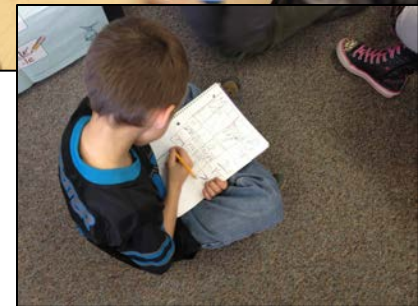
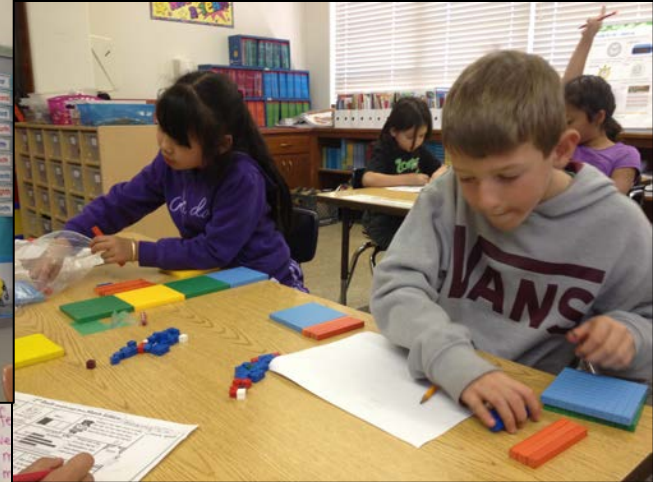


## ***Planning and Preparation***

**1B: Learning activities that incorporate students' use of their first and second languages to make connections to real-world application and include learning activities that progress coherently, are research-based, and are relevant to students and the instructional/IEP goals**

## ***Creating an Environment for Learning***

**2B: Visuals, graphics, and/or technology is accessible to use and to adapt to advance learning and engage students at varying levels of academic content including English language proficiency**

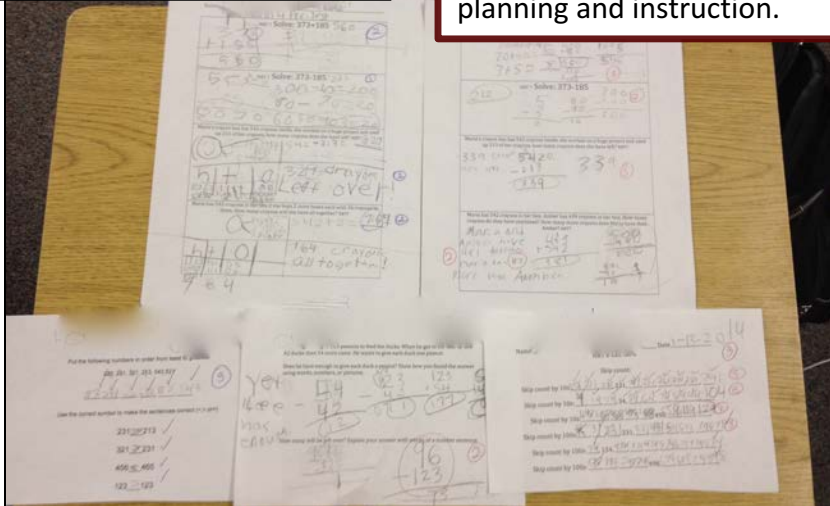


## ***Planning and Preparation***

**1E: Provides strong evidence of using student achievement data to differentiate instruction, including the use of ACCESS scores to support and monitor the progress of ELs and to differentiate their instruction according to English language proficiency levels**



Second grade team tracks student progress using an Excel spreadsheet. This data is then used to inform planning and instruction.

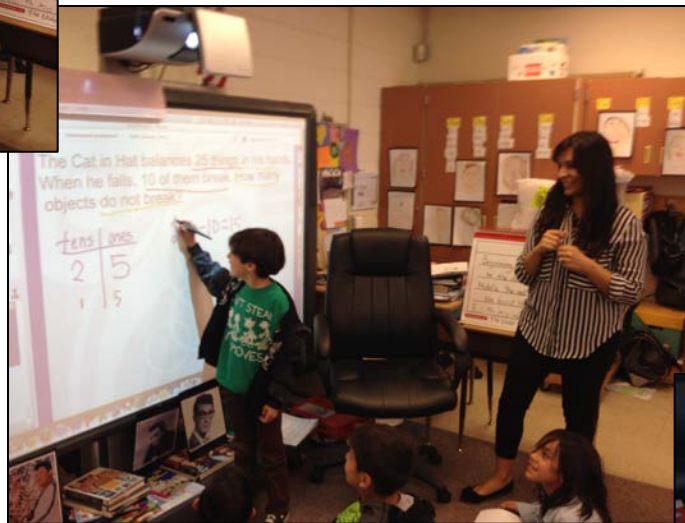
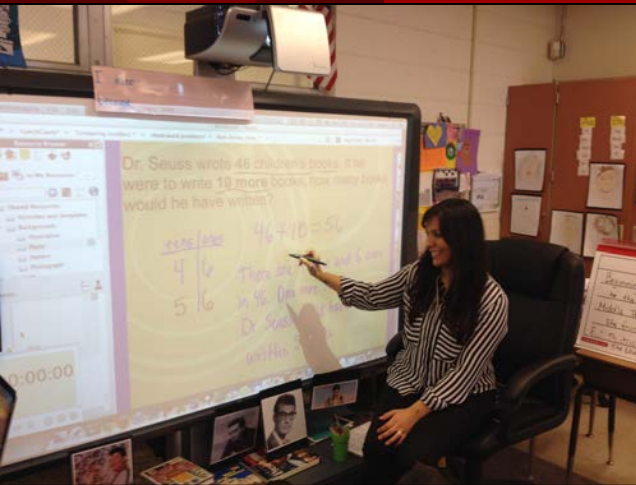


## ***Teaching for Learning***

**3D: Support students in monitoring their progress with evidence-based strategies that include a combination of self and peer assessments**



# TEACH, MODEL, PRACTICE



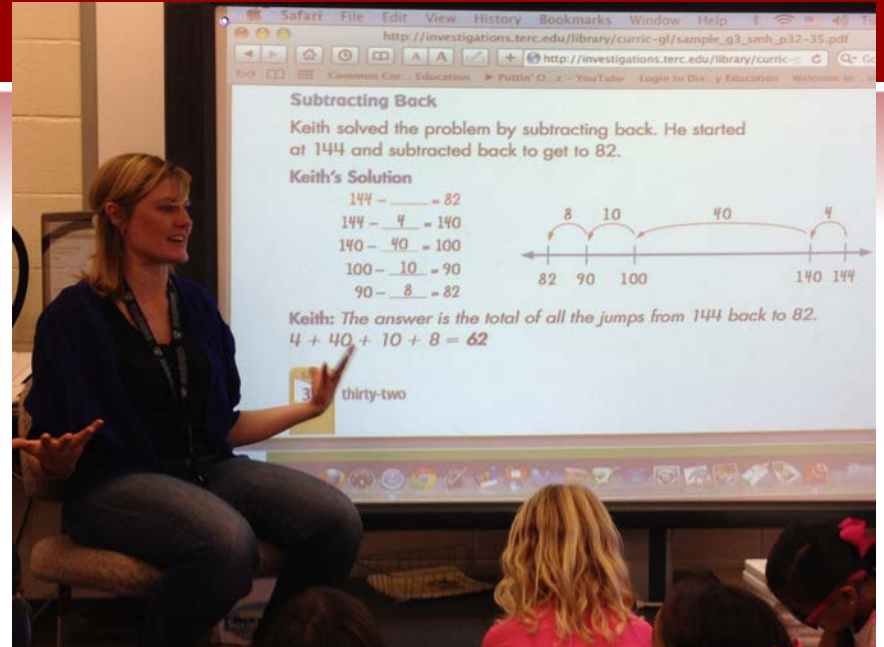
First grade students learn to solve word problems during lessons carefully designed for gradual release of responsibility.

## *Teaching for Learning*

- 3B: • Scaffold for a deep understanding of concepts, using academic language
- Allow students to take ownership or to lead, ensuring that all voices are heard in classroom and group discussions

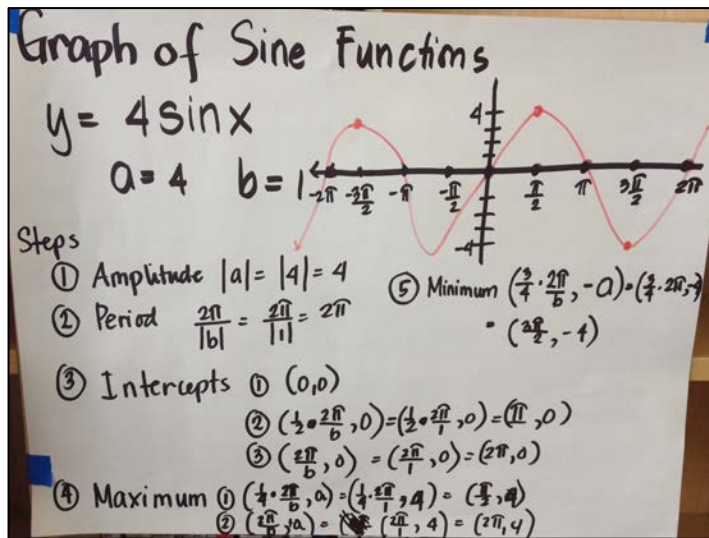


# MAKING CONTENT CLEAR AND ACCESSIBLE



## Teaching for Learning

**3C:** The teacher delivers lessons coherently with attention to scaffolding, pacing, sequencing, flexible grouping, student reflection, and closure



## Planning and Preparation

**1B:** Learning activities that create explicit connections between previous learning and new concepts and develop skills for all learners



# FLEXIBLE GROUPING

## *Planning and Preparation*

**1B: Challenging research-based learning tasks that are structured to progressively develop students' cognitive abilities and academic language**



## *Teaching for Learning*

**3C: The teacher encourages students to negotiate meaning and clarify understanding with their peers, which may be supported using a language other than English**



# INTENTIONAL PLANNING



## *Planning and Preparation*

**1D: Creating lessons that reduce barriers, optimize levels of challenge and support, meet the needs of all learners, and increase access to grade-level curriculum**

## *Professionalism*

**4C: Collaborates with colleagues to reflect on, and apply, the necessary modifications for instructional practices that address the academic and linguistic needs of all students**

# YEAR LONG

Timeline	Social Studies	English Language Arts	Science	Mathematics
Non-Vegotiables Assessments	ELD	CCSS	ELD	CCSS
	Units	Standards	Units	Standards
July - Aug				
Sept - Oct				
Nov - Dec				
Jan - Feb				
Mar - Apr				
May - Jun				

# UNIT PLANNING TARGETING ELLs

**MATH UNIT 1 PLAN - 4th grade**  
Interpreting and Manipulating Multi-digit Whole Numbers

CCSSM Math Practices being emphasized:

- Make sense that the digit on the left side of 33 is ten times as much as the digit on the right side.
- Correctly read, write and compare long numbers in different ways. Explain to others your thinking.
- Understand place value to round numbers while explaining what you did.
- Add and Subtract multi-digit numbers.
- Solve problems that have multi-steps and be able to prove your answer is right.

Essential Questions	Language			Compendium		
	Key Concepts	Function Words	Vocabulary	Sentence Structure	Visual Models of Concepts	Algorithms & Diagrams
1. How can you compare the multi-digit whole numbers using place value?	Place value Rounding a number Read a number Write a number Compare a multi-digit number Expanded form Base 10 numerals	Compare contrast infer manipulate attend precise construct critique persevere round reason	multi-digit value value comparison greater than (>) less than (<) equal to (=) round mont compu expand form symbol Base numerals Whole number	because ar to round and look at digit in 33 means in 33 means	Promethean board Vocabulary Manipulation (Base 10 blocks) Inquiry chart Compendium	Place value diagram Number notation table (types) Number line to model rounding
2. What strategies can you use to help you solve addition and subtraction problems correctly?						
3. When working with addition and subtraction, how can you check your answer?						

During an AIM4S<sup>3</sup> Level I training, a fourth grade team plans their first unit of the year.

**Planning and Preparation**  
**1C: Align rigorous instructional processes and learning activities to all NM adopted standards**

Math -UNIT PLANNING TOOL 4 <sup>th</sup> Grade Unit 1	
<p>CCSSM &amp; Math Practices being emphasized:</p> <ul style="list-style-type: none"> <li>• Make sense that the digit on the left side of 33 is ten times as the digit on the right side.</li> <li>• Correctly read, write and compare long number is different ways. Explain to others your thinking.</li> <li>• Understand place value to round numbers while explaining how you did it.</li> <li>• Add and subtract multi-digit numbers.</li> <li>• Solve word problems that have multi-steps and be able to prove that answer right.</li> </ul>	
<p><b>Essential Questions</b></p> <ol style="list-style-type: none"> <li>1. How can you compare the multi-digit whole numbers using place value?</li> <li>2. What strategies can you use to help you solve addition and subtraction problems correctly?</li> <li>3. When working with addition and subtraction, how can you check your answer?</li> </ol>	<p><b>Pre and Post Assessments</b></p> <ol style="list-style-type: none"> <li>1. Pre assessment survey</li> <li>2. Formative Assessment</li> <li>Teacher Observation <ul style="list-style-type: none"> <li>• Exit slips</li> <li>• Math Journals</li> </ul> </li> <li>3. Summative Assessment <ul style="list-style-type: none"> <li>• End of Unit/Performance Task</li> </ul> </li> </ol>
<p><b>Key Concepts</b></p> <p>Place Value Rounding Number Read &amp; write Number Comparing Numbers Expanded form Base-ten numeral Number Notation Standard form Word Notation</p>	<p><b>Visual Models of Concepts</b></p> <p>Focus Motivation— Vocabulary promethean board Read-A-Loud—Listen &amp; sketch</p> <p>Compendium-1) Inquiry Chart—Definition of Title 2) Standards &amp; Practices 3) Why &amp; how Place value diagram Unit Lesson</p> <p>Closure and Goal Setting</p>
<p><b>Algorithms/Diagrams</b></p> <p>Place value—Diagram Number Notation Table: Standard, Number &amp; word Compare multi-digit numbers Number Line to model rounding</p> <p>Modeling Addition strategies: Base ten blocks, Standard, Partial sums and mental computation</p> <p>Modeling Subtraction strategies: Base ten blocks, Standard, counting up and mental</p>	<p><b>Connections (Real World Applications)</b></p> <p>Talk about the value of different items Process through Home connection: Bring an item with price tag—Student activity line up in order by smallest to largest price tag. Read numbers around the classroom Chant: use of real word numbers Process Home connection: interview family member "Why is it important to compare large and small number?" Small Group: List three ways that you would use in real life situations? Ex: Buying a house vs car?</p>

Focus and Motivation
<p>Present self and share personal story to make a connection to place value. Listen &amp; Respond in any way Literacy/Read-A-Loud</p> <ul style="list-style-type: none"> <li>• Build Background with labeled pictures for main concepts</li> <li>• Geographic in context through pictures and maps</li> </ul> <p>Informal student survey with thumbs up, sideways and down to inquiry "How much you like math?" Chants Songs Video clips of numbers used in real world situations PBS-games</p>

Language Functions	Language Structures
Compare	
Contrast	is greater/smaller than because
Interpret	My answer is reasonable because I understand that the digit in the number 384 means ?
Manipulate	
Attend	
Precision	I know that my answer is correct and makes sense because ?
Construct	
Critique	
Persevere	
Rounding	The number rounded to the nearest is

Vocabulary		
-Multi-digit Number		
-Digit	--Estimation	--Base 10 numerals
-Value	--Base 10 Number	--expanded form
-Comparison	--number names	Standard form
-> greater than		Symbols
< less than	--Whole Number	Mental computation
-Argument	= Equal	
-Reasoning	symbol	
-Precision	Rounding	



# COLLABORATING WITH COLLEAGUES AND FAMILIES



Fourth grader shares with her mom what they are learning in math during parent teacher conferences.



## *Professionalism*

**4B:** Shares knowledge of, and proactively seeks, opportunities to learn more about techniques and strategies to work with all students, which may include cultural perspectives and strategies for sheltering academic language and research-based strategies that address student learning

## *Professionalism*

**4A:** Communicates with families in a manner that is culturally sensitive and responsive and affirms the positive worth of the students and families