T	'eacher(s): Scho	School:		Preconference Date:		
C	Observation Date: Year	Year teacher completed FoM:		Observation □1 □2 □ 3		
T	'ime: Obs	Observer: Worlds, Math Level (if applicable):  # Model Lesson Completed (if applicable)		Grade Level(s):		
	ontent, Program or Strategy (i.e. NumberWorlds, Mathetc):			Class Period:		
#	students in group:			Co-Taught Lesson: YES / NO		
S	Sum of Observed Items (a):		of Observed Items (b):	Average Score (Sum of observed items divided by the number of observed items a/b):		
- T	teacher has completed the following course(s): Check all than all the content of	ace is provid	ed at the end of this form for add			
• \ • •	completed Level 1 of FoM.  While observing the teacher, do not coach the teacher durin  SCALE - RATING 0 = Skill not demonstrated/Missed opportunity; Ratinglemented. Leave the rating BLANK if the skill was NOT APPLICATION.	iting 1 = Imp	roperly implemented; Rating 2 =	Somewhat properly implemented;	·	
	The lesson utilizes language that attends to precision				l mathematics.	
TR	Teacher evidence, examples and vital behaviors seen in the classroom	SR	Student evidence, examples ar classroom	nd vital behaviors seen in the	Comments	
	Promoting discourse, growth mindset, and perseverance through productive struggle		Perseverance and discourse lines, base ten blocks, and vicomputation	using math tools such number sual models connected to		
	Uses language of equal value as opposed to "same as" for equal sign	the	Language that always attend composing and decomposin and the relationship of power	g, tens vs one's vs hundreds		
	Mathematical language is accurate and connects to the components of number sense without fostering misconceptions that may expire in upper grades mathematical language is accurate and connects to the	atics	Discourse that demonstrate make use of patterns and/o	s the student recognizes and r structures		
	Conceptual understanding that fosters the ability to reaso and communicate mathematically	n	Reasons abstractly, as well a communicates that to other	·		

	Engages students in discourse and activities that improve number sense		Students reason and respond to the thinking of others			
	Heterogeneous grouping of students with teacher-facilitated questions that promote rigorous dialogue and understanding		Use of symbols and words to describe and explain math, as well as construct arguments			
	Making connections between math concepts, the components of number sense and to previous learning;					
	encouraging students to build their own understanding.					
TR	Teacher evidence, examples and vital behaviors seen in the classroom	SR	Student evidence, examples and vital behaviors seen in the classroom	Comments		
	Promotes understanding of the importance of derived facts to solve computation problems		Uses derived facts to solve computational problems and can explain why			
	Mathematical properties are embedded within content and components of number sense (not definitions to be memorized)		Uses mathematical properties to solve problems and explain why they work			
	Models, uses think aloud, and components of number sense to promote the connections between data and its meaning		Represents data in mathematically appropriate ways and interprets data with accurate justifications			
	Teaches place value as a system and not just a place		Recognizing place value system not just as a place			
	Mathematical situations/structures (not key words) are taught explicitly		Can explain and model using mathematical situations/structures to solve word problems			
	Emphasizes part-whole relationships and conservation of units		Grouping and attention is given to units, recognizes part- whole relationships			
	An underlying story structure or context that is connected across multiple models to develop the concepts		Can develop and use stories to connect to the mathematical procedures in a mathematically accurate way (prove/disprove claims)			
	Instruction builds on what they already know through use of think aloud, models, and components of number sense		Frequently makes connections between and among situations/concepts with repeated practice			
	Connections of counting numbers to objects counted - accurate language that conserves quantity and magnitude and equality		Makes mathematically accurate connections of counting numbers to objects counted			

	Teaches flexible forms for computation and multiple ways of regrouping and forms of the value		Can compute and reason using decomposing/composing, partial products, concrete multiplication, different forms			
			of an equal value and proportional reasoning			
	Teaches the relationship between components of number		Utilizes and references previously learned concepts to			
	sense		develop a more complex deeper understanding			
	Evidence of all three, concrete, representational and abstract in the lesson,					
	ability for students to access information at all three levels of understanding.					
TR	Teacher evidence, examples and vital behaviors seen in the classroom	SR	Student evidence, examples and vital behaviors seen in the classroom	Comments		
	Ongoing formative assessment and high-quality feedback		Monitors own progress and seeks feedback			
	Teaches multiple ways to represent concepts and solve problems		Extension of ideas by using more than one strategy or explain the current strategy with words and mathematically accurate visuals			
	Mathematical models (both concrete and visual) are appropriately introduced and taught explicitly		Application of a variety of appropriate concrete and visual mathematical models for concepts			
	Entry point of the lesson includes a concrete display of the concepts		Displays multiple ways to represent concepts and solve problems			
	Teacher displays understanding of number sense by fostering the use of mental math and the mental number line		Student displays number sense by using mental math Student displays number sense by using a mental number line			
	Meaning of addition, subtraction, multiplication and division algorithms are displayed concretely, visually and abstractly		Uses concrete, representational, and abstract models with understanding instead of just procedures to solve problems			
	Focus on conceptual understanding and not just a procedure		Reasoning behind algorithms is stated or displayed			
	Base Ten Frame/Mat		Base Ten Frame			
	Graphs		Graphs			
	Hundreds Board		Hundreds Board			

Base Ten Blocks	Base Ten Blocks
Fraction Strips/Bars/Tiles	Fraction Strips/Bars/Tiles
Array Models	Array Models
Chips	Chips
Unifix Cubes	Unifix Cubes
Tallies	Tallies
Situation Structures	Situation Structures
NumberBonds	Number Bonds
NumberLines	NumberLines
Subitizing	Subitizing
Money Exchanges	Money Exchanges
Pawns and Number Cubes/Hands on Equations	Pawns and Number Cubes/Hands on Equations
Visual Representations	Visual Representations
Concrete Multiplication Mat	Concrete Multiplication Mat
Teacher Rating:	
Sum of Observed Items: Number of Observed Items:	Avg. (Sum of observed items divided by the number of observed items a/b):
Student Rating:	
Sum of Observed Items: Number of Observed Items:	Avg. (Sum of observed items divided by the number of observed items a/b):
Transfer Strengths:	
N C.	
Next Steps:	