Evidence-Based Math Practices Professional Development:

Session	1	2	3	4	5
Title	Opportunities for Growth	Lesson Preparations	In-class Coaching	Problem Solving	In-class Coaching
Details	 Discussion on who struggles and why versus who is sufficient in math and why Evidence-based practices versus anecdotal findings Aligning Interventions to students' needs 	 Bridging the Arithmetic to Algebra Gap Vertical and Horizontal Planning Cognitive Science meets Mathematics Systematic Lesson Planning Design 	 Teachers will provide plans Professor(s) observe and record notes on observation report Teachers individually meet with professor(s) to reflect and set goals 	 Math as a Language Problem Solving in Math Retention of math content Math across the Curriculum 	 Teachers will provide plans Professor(s) observe and record notes on observation report Teachers individually meet with professor(s) to reflect and set goals
Suggested	IES practice guides	Witzel (2016) Ch. 2 and 4		IES practice guides	
Readings	Witzel & Little, Chapter 1	Meta-Analyses on			
	Ma Chapters 1-4	Instruction	1 1		l l
Assignments	 Reflection on where they struggled in learning and why Compare and contrast evidence- based approaches with anecdotal positions Practice evidence- based approaches with place value, operations, and fractions Develop formative assessment protocol for upcoming content 	 Pre – Reflect on assessment data Map concerns for each grade or course level Link instructional steps from one concept to the next Link instructional steps from one grade or course to the next Match instructional needs to students' learning stage Design lesson plan for upcoming content 	 Lesson plan Reflection based on the observation report and coaching 	 Develop math terminology visuals Align problem 	

The general plan for the Evidence-Based Math Practices pro	
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