Meaningful Discourse for Math

Problem	Solution	Value Proposition	Unique Advantage	Customer
Number talks are new to me and I'm not comfortable trying them out on	Tools:	Our approach equips classroom teachers with tools, resources		K-8 Classroom Teachers
ny students	Set of common terms/behaviours to be used by teachers working on meaningful discourse	and support to drive quality discourse in a way that allows it to take root, and commit to seeing that it does.	help (Danielle)	
don't know how I will assess how my students are doing when I use a number talk as part of a lesson	List of sentence starters teachers can use to guide students		Supportive Principal	Early Adopters Teachers in the room (STI Workshop)
worry about being to reach all students in my class	Quick Checklist for Number Talk lessons, that identifies strategies students might use in the exercise as well common misunderstandings.		Partners who want to help: Learn Deep, UWM, Milwaukee Succeeds Teachers at early grade levels willing to help establish number talks as	Teachers currently experimenting with number talks Teachers with the cognitive overhead to take on a new challenge
don't have the resources (tools, time, support) to do number talks vell/get good at doing so quickly	The checklist also provides a low overhead way for the teacher to make note of the strategies and/or misunderstandings of individual students. It also indicates how the lesson relates to standards (CCSS-SMP)		a building wide process (making it easier for teachers at higher grade levels)	
Existing Alternatives: Fall back to the way I have been teaching.	Best practice anchor charts for Number Talks		Staff trained in systems thinking that can use these tools to better understand the factors that will allow the practice to spread	
	Use Reflection Journals to have students reflect on their own learning/approaches			
	List of ideas for math challenges teachers can use to check understanding			
	Resources: In-building math specialist who is available for in-classroom modeling of meaningful discourse and ongoing support/mentoring as teachers develop their skills in leading math discourse.			
	In-building cohort of teachers working to integrate meaningful discourse into their lessons, and support each other in doing so.			
	Cross school network of teachers working to expand the use meaningful discourse in their schools.			
	Peer-based professional development that respects the voice of teachers.			
	Schedule changes that would allow teachers to observe/provide feedback to each other.			
	Support: Overt support from building leadership for teachers who elect to integrate meaningful discourse into their math lessons.			
	Permission from district administration for teachers to deviate from the pacing guide based on their students' needs.			
	Key Metrics		Channels	
	<pre># of teachers surveyed to confirm customer profile # of teachers surveyed to confirm problem statements # of teachers willing to participate in effort # of teachers using sentence starters list # of number talks/week</pre>		Classroom visits Whole group experience for teachers within the building Recommended reading list Student advocates	
	# of teachers doing number talks on a weekly basis			
Cost Structure		Revenue/Value Creation Str	ucture	1
Staff time/energy to establish culture of discourse Jesign and creation of resource materials Dedicated time for staff to collaborate/practice skills		Engaged Students Higher Proficiency in math Quality instruction		
ime to engage staff to secure buy-in		Increased confidence of teach Increased respect for/trust of t		

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http://learndeep.org/scaling-meaningful-discourse-recap