Doing What Works
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Road Map to Doing What Works (dww.ed.gov) Professional Development Materials
Selected Highlights: DWW Critical Foundations for Algebra

	LEARN	SEE HOW	DO
	Expert Video Interviews	**Videos, Audios, Slideshows**	**Tools**
Mathematics Preparation for Algebra **(content)**	**Francis (Skip) Fennell:** 1. Overview of foundations 2. Benchmarks 3. Professional development **Hung-Hsi Wu:** 1. Teaching Fractions	1. New Haven (CT)—reasons for moving to focused math curriculum 2. Buffalo Grove (IL)--challenges faced in creating K-8 vertical alignment 3. Douglas County (CO)—process of developing essential learnings 4. New Haven (CT)—seventh grade teacher demon pre-algebra topics 5. Washington DC—fifth grade approach to teaching computation; subtracting a fraction from a whole 6. Spokane (WA)—using double number lines to teach fractions Plus 5 other media items and the lesson plans for teacher demos	1. Plan for professional development activity/teacher meeting re: the key messages of the NMP 2. Summary of how three districts moved toward focused curriculum/ discussion plan for adapting strategies 3. Match district benchmarks to recommendations of NMP
Comprehen-sive Instruction **(pedagogy)**	**Joan Ferrini-Mundy:** 1. Teaching conceptual understanding, computation, and problem solving 2. Blending teacher- and student-directed instruction 3. Instruction,, inc. real-world problems, calculators	1. Spokane (WA)—principal discusses balanced instruction 2. New Haven (CT)—specialist teachers demo practice in math 3. Spokane (WA) and Douglas County (CO)—slideshows about building students' effort and persistence in math Plus examples of physical education-math lessons, "significant tasks," and principal's newsletters to parents about persistence	1. Prof. develop. activity challenging beliefs/attitudes about math instruction 2. Teacher self-reflection re: effort and persistence 3. Observation form that incorporates NMP practices
Mastery Framework **(assessment)**	**Lynn Fuchs:** 1. Formative assessment 2. Research-based instructional programs	1. Spokane (WA)—using assessment grids for math units grades 1-6 2. Spokane (WA)—using a protocol to review student work 3. Claxton (GA)—formative assessment on daily basis in six parts of math lessons 4. New Haven (CT)—how math coaches help teachers use data 5. Claxton (GA) and Falls Church (VA)—interventions for struggling math students 6. Falls Church (VA)—acceleration for gifted math students Plus 4 other media items and support materials for media, e.g., protocols, assessment items, course descriptions, curriculum guides	1. Prof dev. activity re: formative assessment w/ inventory of practices 2. Checklist of components of a mastery framework 3. Self-assessment inventory of practices for struggling students 4. School assessment of practices for supporting gifted math students