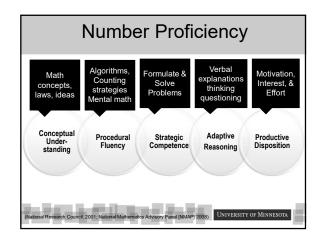
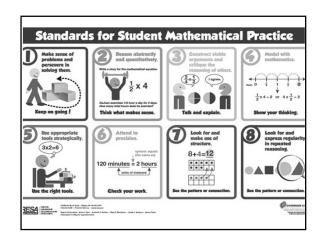
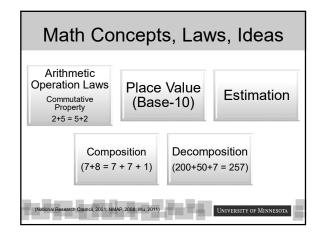
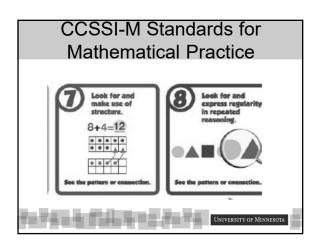


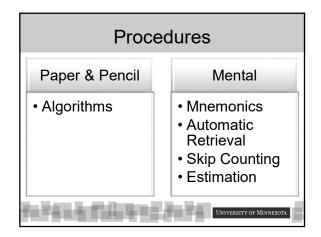
Improving Mathematics Standards Common Core State Standards for Mathematics Coherent Set of Curriculum Standards (2010) President & U.S. Department of Education Convened National Mathematics Advisory Panel Final Report (March 2008) National Council of Teachers of Mathematics Generated Curriculum Focal Points (2006) National Research Council Convened panel of mathematicians, psychologists & educators Adding it Up (2001)

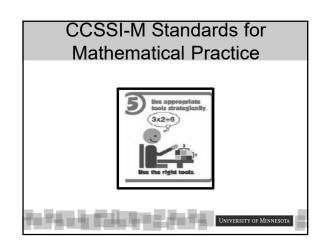


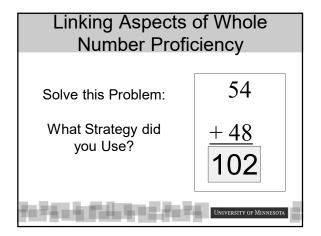


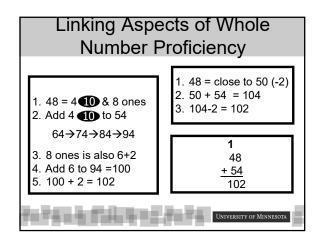


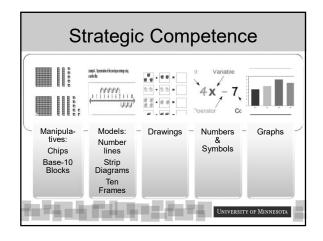


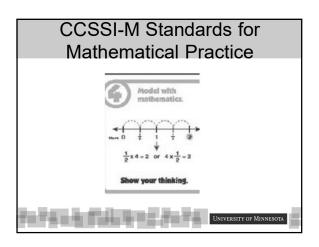


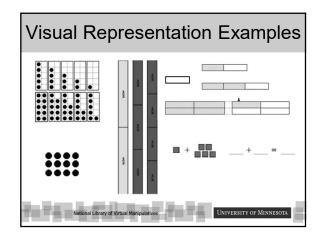


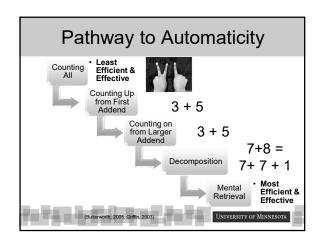


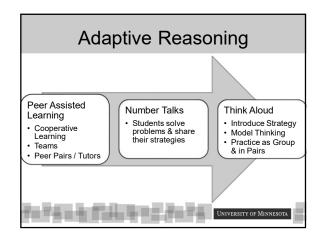


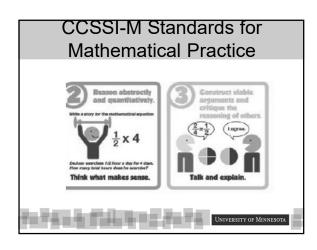


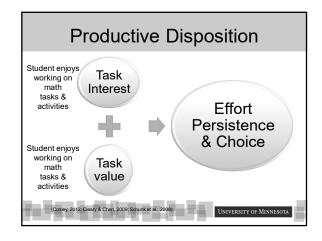


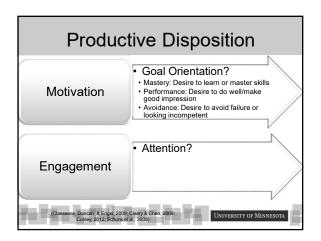


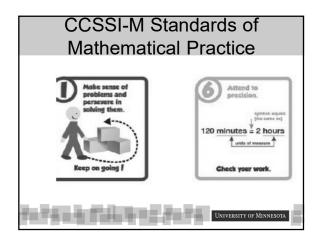


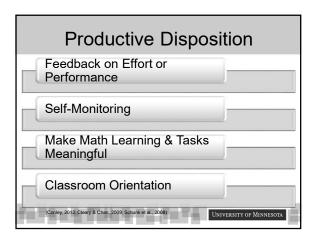


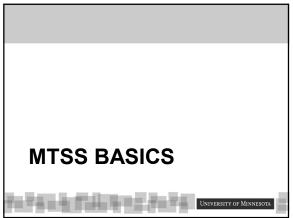


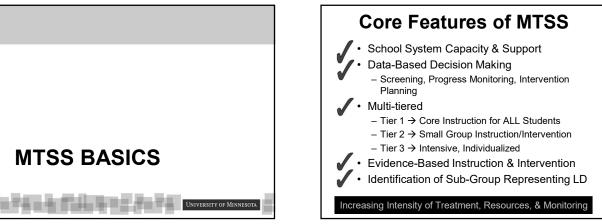


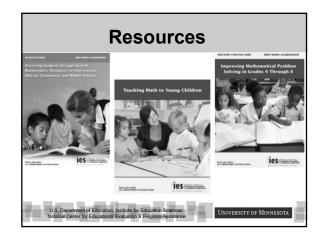


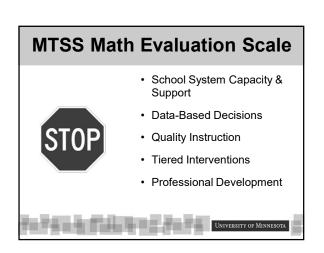


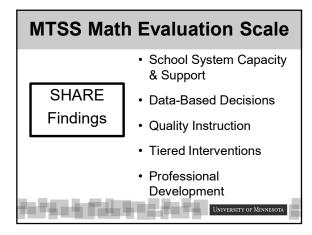


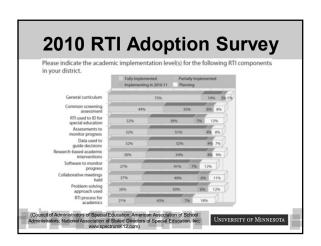


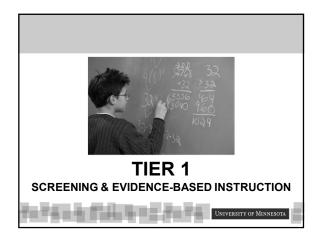


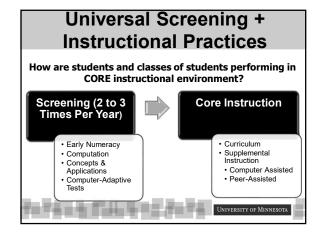


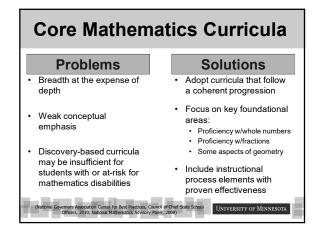


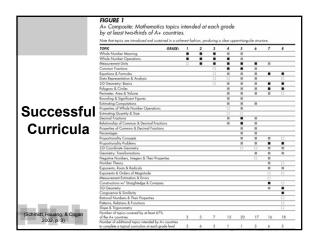


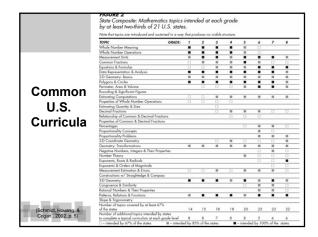


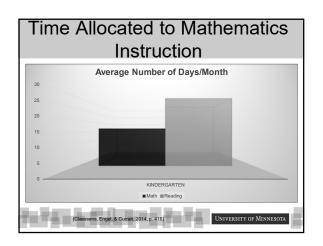


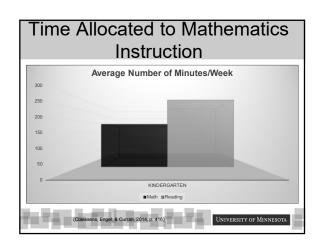


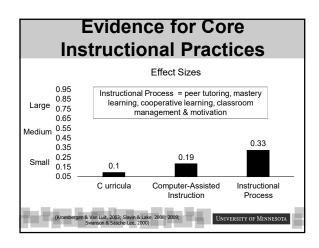






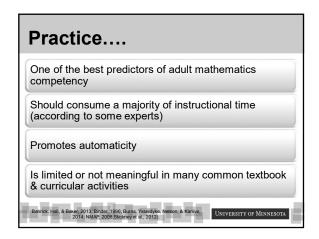


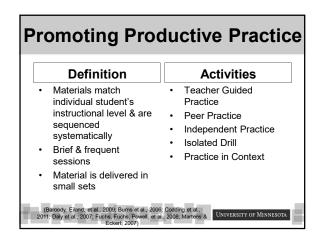


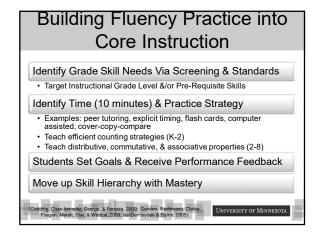


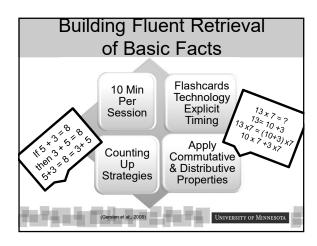
Curricula/ Program	What Works Clearinghouse	Best Evidence Encyclopedia	
1	CURRICULA		
Building Blocks for Math (SRA Real Math)	Positive	NA	
Pre-K Mathematics	Positive	Moderate	
SU	PPLEMENTAL PROGRAM	MS	
Peer Assisted Learning Strategies (PALS)	No Discernible Effect	Moderate	
Classwide Peer Tutoring (CWPT)	NA	Strong	

Elementary Level					
Curricula/ Program	What Works Clearinghouse	Best Evidence Encyclopedia			
CL	JRRICULA				
Odyssey Math	Potentially Positive	NA			
Everyday Mathematics	Potentially Positive	Limited Evidence			
Saxon Math	Potentially Positive	NA			
Singapore Math → Commonly Recommer (Primary Mathematics; New Elementary					
SUPPLEME	NTAL PROGRAMS				
Peer Assisted Learning Strategies (PALS)	NA	Strong			
Class-wide Peer Tutoring (CWPT)	NA	Strong			
Team Assisted Instruction (TAI)	NA	Strong			
PowerTeaching: Mathematics	NA	Strong			
Accelerated Mathematics	Potentially Positive	Limited Evidence			









Summary: Recommendations for Instructional Practices

1. Match Curriculum w/ Common Core Standards

2. Incorporate Differentiated & Explicit Instruction

3. Designate 45-60 Minutes for DAILY Instruction

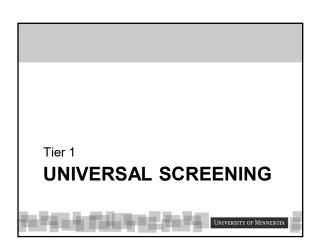
• Assume additional 20-40 minutes for tiered activities

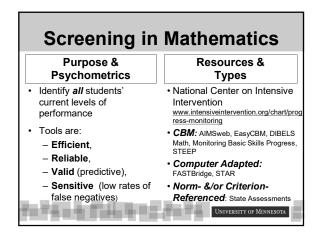
4. Supplement w/Instructional Process Strategies

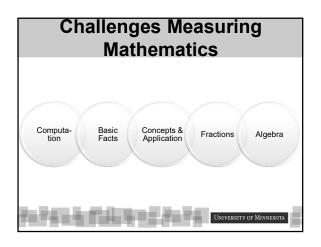
• Peer-Assisted Learning, Small Groups, Cooperative Learning
• Classroom Management & Motivation
• Computer Assisted

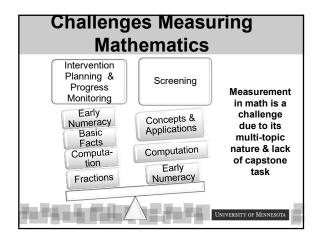
5. Provide Targeted Practice to Promote Fluency

6. Conduct Universal Screening

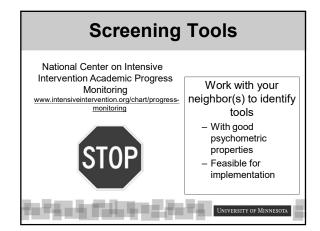




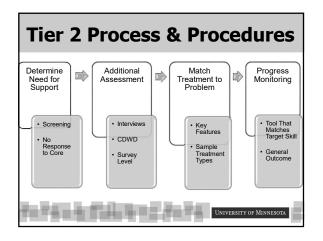


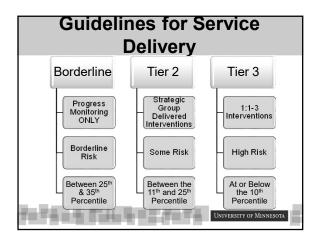


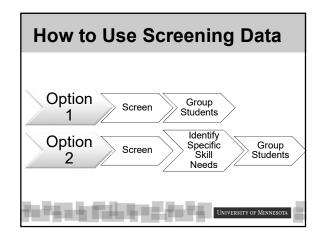
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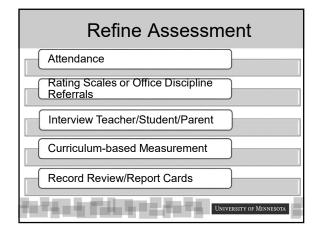


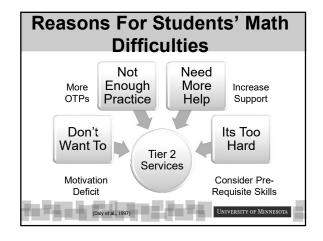




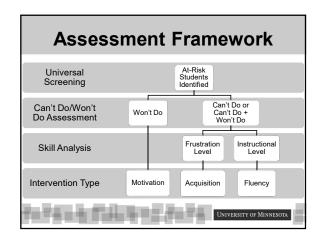


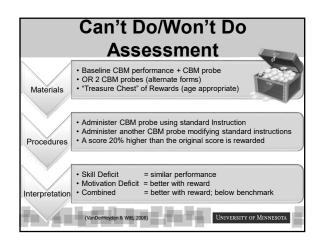


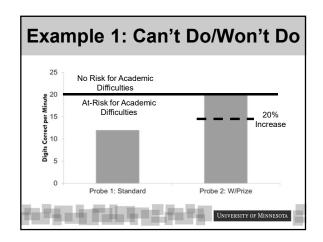


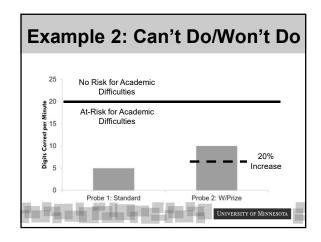


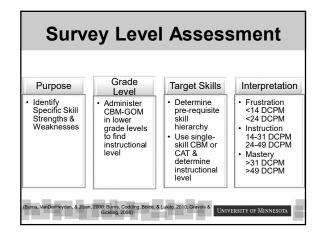


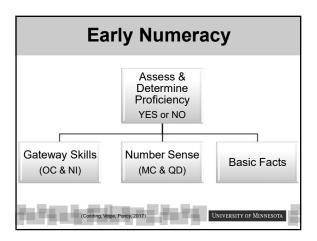


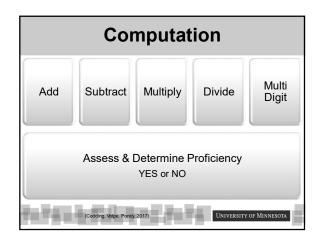




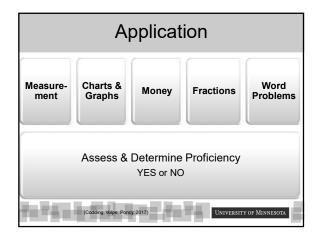




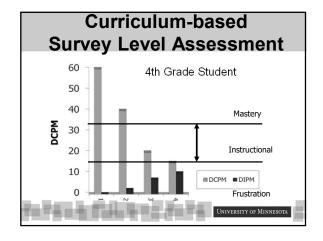


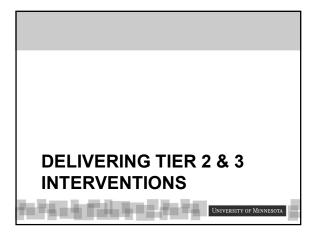


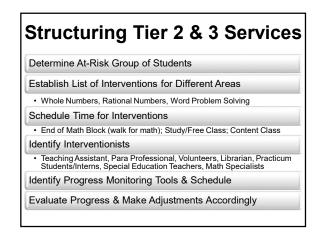
Computation Skill Hierarchy				
Operation	Skill			
Addition	One-digit facts to 10 One-digit facts to 20 Two-digit, no regrouping Two-digit, regrouping			
Subtraction	One-digit facts to 10 One-digit facts to 20 Two-digit, no regrouping Two-digit, regrouping			
Multiplication	One-digit facts 0-2, 5 One-digit facts 3-4, 6-12 1 x 2 digit Multiple digits (w/ & w/o regrouping)			
Division	One-digit facts 0-2, 5 One-digit facts 3-4, 6-12 Long division, no remainder Long division, remainder			
(Common Core 2	010: Shapiro, 2010)			

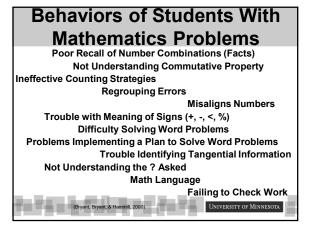


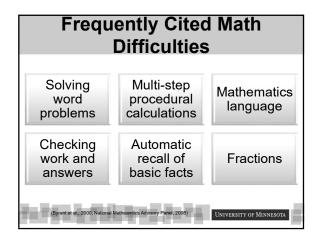
Skill Benchmarks By Grade						
Grade	Fractions	Geometry & Measurement				
4	Identify & Represent Fractions & Decimals Compare Fractions & Decimals on Number Line	Understand Concepts of Angle & Measurement Angles				
5	Compare Fractions, Decimals, & Common Percent Add/Subtract Fractions & Decimals	Solve Perimeter & Area Problems for Triangles and Quadrilaterals				
6	Multiplication & Division of Fractions & Decimals All Operations w/Positive & Negative Integers (Common Core, 2010; Shapiro, 2011)	Analyze Properties of 2D Shapes Solve Perimeter & Area Problems for 2D Shapes Analyze Properties of 3D Shapes Solve Surface Area & Volume Problems for 3D Shapes				

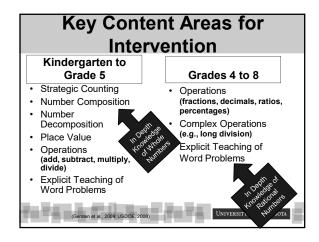


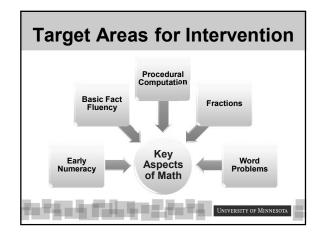


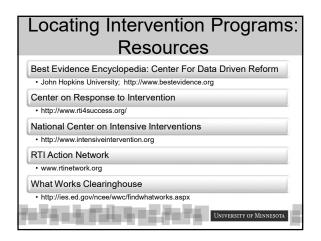


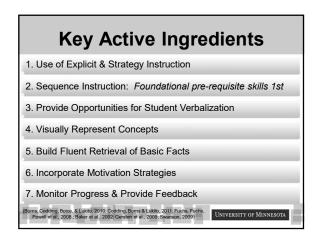


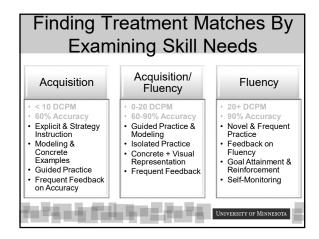


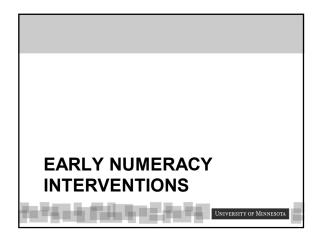












Early Numeracy Interventions						
	Grade	Details	Topics	Lengt		
DreamBox Learning® http://www.dreambox.com/	K-2	Online; Tailors Activities to Instructional Level	Subitizing, Counting, Magnitude Comparison, # Line, # Identification, # Writing, Part-Whole Relations, Place Value, Basic Facts, Problem Solving	90 Min Weekly		
Early Numeracy Interventions Psychoeducational Services	1	Small Group Intervention Program 3-4 Times Weekly		25-30 M		
focusMath Intensive Intervention® http://www.pearsonschool.com/ focusmath	K-6	Small Group or Individual Administration		45-60 M		
Fusion https://dibels.uoregon.edu/market/movingup/firstfoundation	1	Small Groups of 3-5 Students; 4-5 Days Weekly		30 Min		
Number Rockets http://vkc.mc.vanderbilt.edu/numberrockets/	1	Small Group Tutoring; 3 times Weekly		40 Min		
Number Sense Interventions Brookes Publishing	K	Small Group; 3 Times Weekly		30 Mir		
Roots https://dibels.uoregon.edu/market/movingup/kfou ndation	К	Small Group, 2-3 Times Weekly		20 Mir		
SRA Number Worlds® (http://www.sranumberworlds.com/	PK-8	Curricula w/Intervention Element		15-60 IV		

