MATH FLUENCY FRAMEWORK ESSENTIAL ELEMENTS

Understand

Research Framework

- •4 Elements of Fluency
- Cycle of Engagement
- •Automaticity
- Practice
- •Math Talk
- Modeling Mathematical Thinking
- Students Engagement

Shared Definitions

- School Administrators
- •Teachers
- Students
- Parents
- •Other Stakeholders (school
- staff & larger community)

Teac

- Mission Statement
- Vision Statement

(Z) Assess

Get the Data (build fluency profile)

- 4 Elements of Fluency
- Looking at individuals, classes, grades, grade bands and school trends
- Math Running Records
- Conferring
- Standardized Tests

Use the Data

- Make an Individual Fluency Plan
- Student Goal Setting
- Make Acceleration Plans
- Map out Daily Fluency Routines
- Plan Family Math Fluency Days & Nights

Instruction

- •Daily Routines- Whole Group •Workstations - Individual, Partners, Small Group
- •Guided Math Groups
- Dersonalized Goal Setting
- Personalized Goal Setting
 Homework
- •Homework

Assessment (Ongoing)

- •Math Running Records
- Entrance/Exit Slips
- Observations
- Anecdotals
- Interviews
- •Conferring
- Student Reflection

Reflect/Revise

Analyze the Data (weekly, monthly, quarterly)

- •Individually
- •Class
- •Grade
- •Grade Band •School
- Scho

Interpret the Trends and Adjust Instruction Accordingly

- •Individually
- •Class
- •Grade
- •Grade Band
- School



Classroom Design

- Differentiated Fluency Workstations
- Fluency Anchor Charts (Class) Strategy Models Learning Target/
 - Success Criteria
- Classroom Library (section on fluency books)

Materials

- Fact Fluency Folders
- Fact Fluency Rings
- Fluency Progressions
- Strategy Anchor Charts
- Model Anchor Charts
- Goal Setting
- Progress Monitoring
- Certificates
- Fact Fluency Parent Brochures/Newsletters by Grade
- Fact Fluency Videos by Operation
- Fact Fluency Website
 Student-created strategy cards
 Core set of manipulatives/ tools (domino, dice, 2 sided counters, cubes, highlighters, colored pencils, different types of paper (grid, centimeter, blank), rulers, number paths, beaded number lines, number lines and hundred grids).
- Plan Family Math Fluency Days & Nights