



GENESEO

COMMUNITY UNIT  
SCHOOL DISTRICT #228

*Where the future grows.*

# District 228

## K-5 Math Enhancement Presentation to the BOE

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February 10th, 2022

TEACHLEARN**CARE**

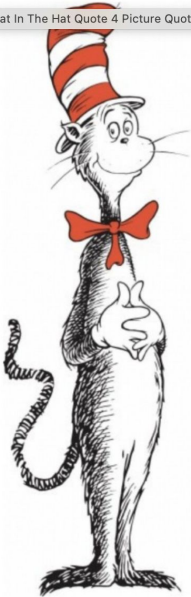
# All Things Considered...

## A lesson from Cat in the Hat...

Although the rain put a hardship on the children, the Cat challenged them to be innovative and creative. “Sit and wait” wasn’t an option with the Cat. It was hard. It was messy. There were unexpected “Things”! Mom wasn’t going to like it... but in the end the kids had a whole new perspective of the rainy days.

The past two years have been much like the adventures of this childhood story... it continues to be bumpy... and rainy... so... what will we do?

Cat In The Hat Quote 4 Picture Quote #1



**“The sun  
did not  
shine.  
It was too  
wet to play.  
So we sat in  
the house.  
All that  
cold, cold,  
wet day.”  
- Dr. Seuss**



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# The What...

*Goals & Vision for Math*

# District #228 Goals

Goals	Progress	Next Steps
<p><b>ELT</b> ELT will support the improvement of the math RtI program through collaboration with math interventionists, ACAI, and School Data Teams.</p>	<p>Frequent communication regarding Math Intervention Program; Creation of Math Team (Tier 1); Data Days, Priority Standards.</p>	<p>Set new 2022-2023 goals with ELT. Continue growth and leadership of Math Team members. Expansion of Interventions, including enrichment.</p>
<p><b>GMS</b> Work with the GMS Math team to utilize NWEA MAP Growth assessment, along with spring 2021 IAR achievement results, to set math improvement targets.</p>	<p>Student Goal Setting, Implementation and use of MAP Accelerator 6th-8th, Student Growth Recognition and Celebration; Math Team for professional growth (Tier 1), Priority Standards.</p>	<p>Identify 2022-23 math improvement targets utilizing spring MAP and IAR results. Maximize use of MAP Accelerator and intervention tools by expanding student goal setting.</p>
<p><b>District #228</b> 29% of our fifth grade students meet or exceed Illinois Assessment of Readiness (IAR) standards in Math.</p>	<p>Monitor IAR scores of 5th grade students. Research indicates 5th grade math achievement is a key predictor for future mathematic success.</p>	<p>Compare IAR 2022 scores to IAR 2021 scores. Use MAP scores to monitor achievement, particularly in 5th grade math.</p>
<p><b>Board of Education</b> The Board shall allocate additional local, state, and federal resources to increase Math achievement at the elementary level.</p>	<p>Math Interventionists expansion opportunities (teachers, paras), math PD opportunities, math resources (manipulatives, books, etc.), MAP Accelerator, Reflex.</p>	<p>Continue partnership and updates to BOE regarding their investment and its impact in the area of mathematics.</p>

# Long-Term Math Vision



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## **The Why...**

*Our most important motivation...*



# Making Sense of Math



Do this one with working in your group  
How many ways can you show this number?

503



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## **The How...**

*Learning Supports for Students & Staff*



# Teacher Support

## Monthly Meetings

Each month interventionists & ACAI collaborate with classroom teachers on curriculum and best practices in mathematics.

### BET Story Problems

Give only the first sentence.

Students visualize and sketch it out

Ask, "What do you think will happen next sentence"

### Let's Try One!

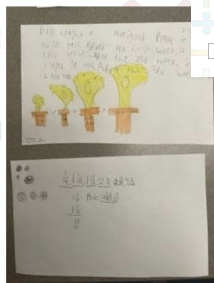
When Bill bought a morigold plant, it was  $\frac{3}{4}$  inch tall.

After the first week, it measured  $1\frac{1}{12}$  inches tall.

After the second week, it was  $1\frac{11}{12}$  inches.

After week 3, it was  $2\frac{3}{4}$  inches tall.

What was the height of the plant at the end of week 4?



## Math Team

17 Teachers, K-8th grade volunteered to be learners and pioneers of Tier 1 best practices in mathematic instruction with professional coaching support from Janet Moore (Bloomington ROE Math Coach and Dr. Robert Mann (WIU).



## Math Tips

Provide best practice resources, PD and lesson ideas for teachers to use in their classroom to make powerful math moments.

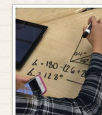


### MATH BEFORE BED

...or Math Before Recess? ...or Math Before Lunch. Check out these resources to spark math discussions and math talks.

<https://mathbeforebed.com/>

\*Check out the FREE e-book and Prompts tab\*



### TAP INTO TEEN MINDS

Let's spark curiosity. Check out these 3-Act Math Tasks and PSL Math Lessons that align with your current units for our Middle School students.

<https://tapintoteenminds.com/math/>



### MATH PD FOR YOUR EARBUDS

Making Math Moments Podcast of TONS of math topics. I've listened to several of these (there are over 100) and they are AWESOME.

<https://makemathmoments.com/podcast/>



# Instructional Coaching

Dist. 228 Geneseo, Illinois

Math  
Enrichment  
Lesson  
Development  
- Problem  
Solving

Student  
Self-  
Reflection  
on Math  
Skills

Math  
Concepts  
and  
Application

Math  
Team  
Members

Examining  
Student Work  
Samples  
(Mathematical  
Reasoning &  
Assessment Feedback)

Processing  
Math  
Assessment  
Data

Math  
Talks  
(Pilot and  
Modeling)

Prioritizing  
Math  
Standards

3-Act  
Math  
Tasks

Differentiated  
Math Centers

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# ELEMENTARY MATH RTI

Purpose: The purpose of Elementary Academic RtI is to provide the highest quality instruction and interventions that will match the needs of individual students in order to ensure that all children reach their fullest potential.

## Components of Math RtI Program

**Student Centered**

**Teacher Supported**

**Data Driven**

**Collaborative**

**Adaptive**

**Best Practice Approach &  
Research Based**



# Program Components

## Skill Based & Standards Aligned

Skill support for students is designed and targeted based on priority standards and foundational skills identified as weaknesses for students.

Most interventions are delivered through hands-on approaches using the Concrete-Representational-Abstract approach to mathematical thinking development.

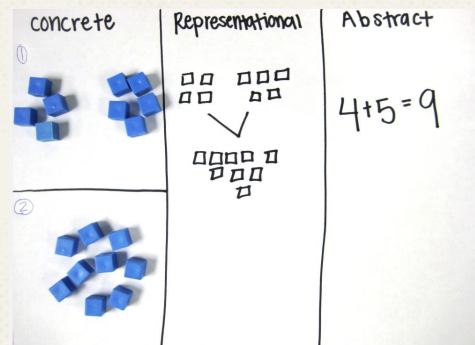
Support for math is also provided in some classrooms through a “push-in” approach in order to increase frequencies of feedback and “on the spot” reteaching opportunities.

## Progress Monitoring

Student progress is monitored through AIMS Web, as well as skill based pre and post assessments.

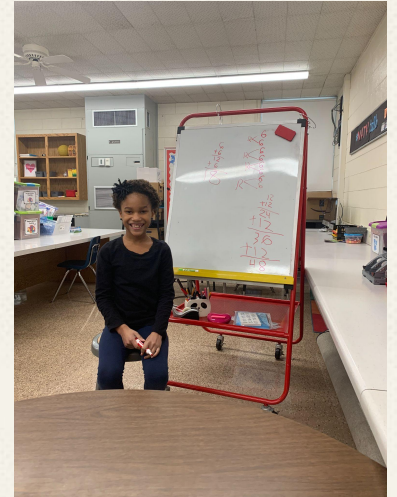
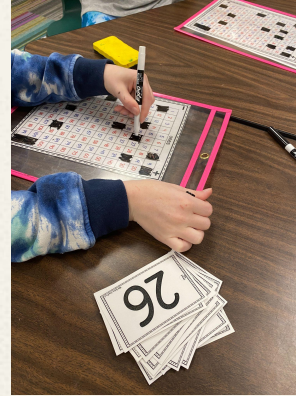
Student achievement is monitored through MAP and classroom performance related to grade level standards.

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This picture shows how to use the CRA instructional approach with the problem  $4+5=9$ .

# Making Sense of Math



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# So What...

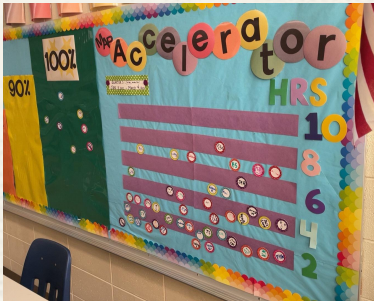
*Student Data*

# Winter 2022 Data Overview

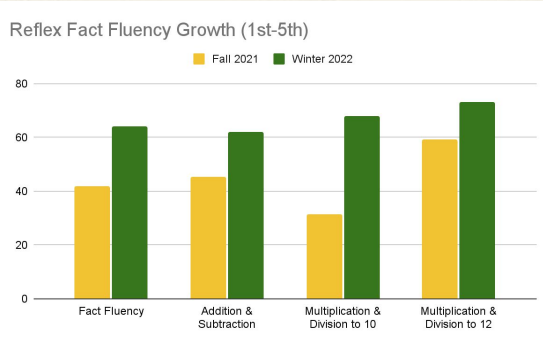
## MAP Accelerator

Consistent use of MAP Accelerator has lead to **+2-3** point gains above other students (3rd-5th).

The average student who practiced for 30 minutes a week or more in MAP Math Accelerator increased their math score by **at least +3** points (6th-8th).



## Reflex Math



## MAP Growth (K-8)

1st-8th grade students Mean MAP scores on the Winter Benchmark indicated growth from Fall to Winter.

Kindergarten showed above average achievement the Winter MAP Math Benchmark Assessment.

1st-5th Grade students had average achievement for the Winter MAP Math Benchmark Assessment.

## Rtl Data Fall to Winter (21-22)

<i>Average MAP RIT Score Increase</i>	<b>K-2</b>	<b>3-5</b>
<b>Tier 2</b>	<b>+5.3</b>	<b>+8.2</b>
<b>Tier 3</b>	<b>+10.1</b>	<b>+8.3</b>
<b>Transitioned Students</b>	<b>12</b>	<b>8</b>

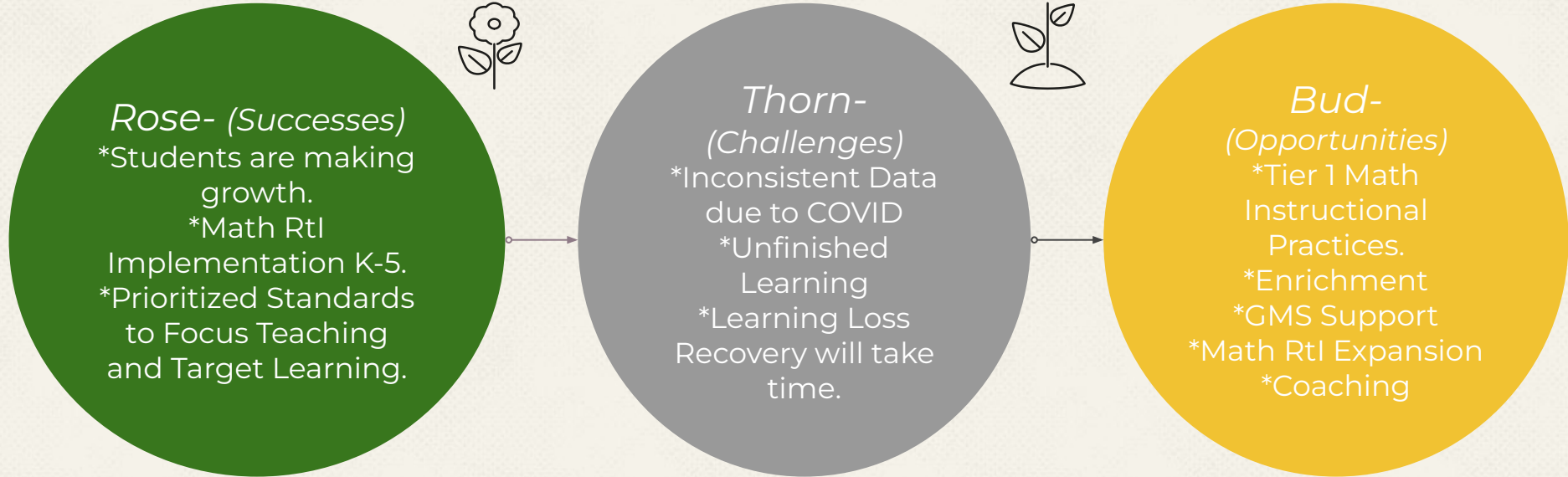


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# Now What?

*Moving Forward*

# Key Takeaways



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# Thank you!



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