

Elementary Math Program Update
Lauren Tallarine, District Coordinator of Mathematics

## Overview

-What does success look like?

- How are we doing?
-Where are we going?



## What does success look like?

Math in Focus Singapore Math ${ }^{\circ}$ by Marshall Cavendish
-Embedded problem solving
-Balanced understanding of the why and the how
-Number sense


Balanced understanding of the why and the how



## Early Number Sense



## How are we doing?

-NWEA Data
-Internal Data

## NWEA National Data

Nationally, NWEA observed a 5 10 percentile point decline in mathematics, compared to the same grade level, last year.
This national COVID slide was not as severe in reading.

## Manhasset's NWEA Growth Data

- Fall 2019 Growth Measure Summary

Math: Math K-12


- Fall 2020 Growth Measure Summary

Math: Math K-12

$\square$ Observed Growth

- Grade-Level Norms Projected Growth


## Manhasset's NWEA Achievement Data

| Math: Math K-12 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Comparison Periods |  |  |  |  |  |
|  |  | Fall 2019 |  |  | Fall 2020 |  |  |
| Grade (Fall 2020) | Growth Count $\ddagger$ | Mean RIT | SD | Percentile | Mean RIT | SD | Percentile |
| K | 0 | ** |  |  | ** |  | 1 |
| 1 | 0 | ** |  |  | ** |  | $\bigcirc$ |
| 2 | 202 | 169.7 | 14.8 | 95 | 184.6 | 11.1 | 95 |
| 3 | 213 | 192.6 | 15.2 | 99 | 195.4 | 11.9 | 88 |
| 4 | 222 | 197.1 | 13.3 | 93 | 206.8 | 15.1 | 86 |
| 5 | 217 | 206.8 | 12.6 | 86 | 214.8 | 15.1 | 78 |
| 6 | 253 | 220.0 | 13.2 | 93 | 222.5 | 15.3 | 84 |
| 8 | 0 | ** |  |  | ** |  | $\square$ |
| OT | 2 | * |  |  | * |  |  |

## Internal Data

- A comparison of grades $K$ - 3 classroom assessments from Fall 2019 and Fall 2020 revealed similar results in both years
- Grade 2-6 teachers reported some concerns about math fact fluency


## Responding to the Data

- Reflex Math
- Various Math in Focus Supports
- Math Specialists
- Summer Tier 3 Support Program
- Grade 5 Math Class Structure

Reflex Math Fluency Program
-Uses a fact family approach
-Incorporates real-time coaching
-Built-in incentives



## Reflex Math Data

## Grades 2-5 students solved more than 2.25 MILLION math facts since October!

## Reflex Math Data

October 2020


## Starting Fluency

January 2021


Current Fluency

Percent of Facts Fluent
Number of Students
Still Assessing

- 0-49\%
-50-79\%
- 80-94\%
- $95-100 \%$


Still Assessing
0-49\%

- $50-79 \%$
- 80-94\%
- 95-100\%

Number of Students


Math in Focus:
Upgraded digital platform, Ed - Your Friend in Learning

- Online student edition
- Learn Videos
- Text can be read aloud



## Math in Focus: Prior Knowledge Check-in



## , Quick Check

Express the improper fraction as a mixed number. (11)

$\frac{8}{3}=$ $\qquad$ thirds $=$ $\qquad$ thirds + $\qquad$ thirds

## Math in Focus: Virtual Manipulatives

Find the Value of the
Digits in 3-Place Decimals


Think of a number less than 1,000 . Then represent it using base-ten blocks and the place-value chart.


## Math in Focus: <br> School-to-Home Connections/Resources

## SCHOOL-to-HOME <br> CONNECTIONS <br> Angles and Line Segments



## SCHOOL-to-HOME

CONNECTIONS

## Shapes and Patterns

Dear Family,
In this chapter your child will explore flat and solid shapes. Skills your child will practice include:

- identifying, classifying, and describing flat shapes
- identifying, classifying, and sorting solid shapes
- composing new shapes and models
- using shapes to identify, extend, and create patterns

Math Practice
At the end of this chapter, you may want to carry out these activities With your child. These activities will help to strengthen your child's
understanding of flat and solid shapes.

Activity 1

- Look for examples of rectangular prisms, cubes, and cylinders in
your food cupboard. Sort the objects by their shapes.
Activity 2
Visit a librory and read books about shapes, such as Shapes,
Shapes, Shapes by Tana Hoban; Shapes That Roll by Karen Nagel: Shapes, Shapes by Tana Hoban: Shapes Stat Roll by Karen Nagel
Bees, SNails, $\&$ Peacock Tails: Patterns \& Shapes . . Naturally Bees, Snails, \& Peacock Tails: Patterns \& Shapes ... Naturally
by Betsy Franco; and Shape by Shape by Suse MacDonald.

> סoblo Matb Talk Examine a piece of paper $\begin{aligned} & \text { logether. Count the papers } \\ & \text { sides and corners. If the }\end{aligned}$ sides and comers paper's sides are all equal, it is a square. If the opposite sides are equal, it is a rectangle. Next, look at a cereal box. Count the sides and corners. Identity the box as a type of solid shape.

Activity 3

- Encourage your child to draw his or her favorite animal using circles, squares, triangles, and rectangles. Then, challenge your child to create the same animal using solid shapes. Use storebought or homemade clay or dough to make spheres, cubes,
pyramids, and rectangular prisms.


## Parent Resources

## Elementary Math Specialists



Munsey Park
Mrs. Scognamiglio
Ms. Yang


Shelter Rock
Mrs. Fassenfeld Mrs. Papadopoulos

# NWEA Results for our 16 Summer Tier 3 Participants 

- Average growth at the $52.40^{\text {th }}$ percentile
- Average achievement at the $25^{\text {th }}$ percentile
- Average gain of 8.75 RIT score units


## Grade 5 Classroom Enrichment



> Four $4^{\prime}$ s $4+4+4+4=16$
> $[(4 \times 4)-4] \div 4=3$


# Grade 5 Classroom Enrichment: Math-ELA Connections 

## Where are we going?

- Continue to identify and respond to learning gaps
- Provide opportunities for interdisciplinary work
- Consideration of Grade 6 transition to the Math in Focus 2020 edition
- Late Winter Pilot of IXL for ELA \& Math in Grade 6
- Incorporated IXL subscription into the Summer 2021 planning for grades K - 6
- Discuss the addition of a 1.0 Shared Math Specialist
- Continued \& ongoing teacher training for new text edition
- Implementation of new identification process for Grade 6 double accelerated math


## Thank you for attending!

## Please reach out with your questions:

## Lauren Tallarine@manhassetschools.org

