A classroom setting with several wooden desks and blue chairs. The walls are decorated with various educational posters and charts. A large black text box is overlaid on the center of the image.

What is the Impact of the Math Specialist Role on Teaching and Learning at Davis Thayer?

**Presented By: Evemarie McNeil,
Stefani Wasik and Jennifer Violet**

District Work

- Benchmark Assessments
- Professional Development



Name: _____ Date: _____

Franklin Public Schools Math Assessment Grade 3 Benchmark 1

(3.NBT.1)

1. Round each number to the nearest **10** 2. Round each number to the nearest **100**

a. 56 _____

b. 352 _____

b. 272 _____

c. 1,731 _____

(3.NBT.1)

3. Circle **all** the numbers that round to 500 when rounding to the nearest **hundred**.

468

442

520

592

(3.NBT.1)

4. The weight of a giant pumpkin was 1,700 pounds when rounded to the nearest hundred. Circle **all** of the weights below that could round to 1,700 when rounding to the nearest **hundred**.

A. 1,640 pounds

B. 1,654 pounds

C. 1,649 pounds

D. 1,745 pounds

E. 1,751 pounds

High Quality Math Tasks To Increase Perseverance & Problem Solving

January 15, 2016

Complete
the math
task on
your
table



Whole School Food Drive Math



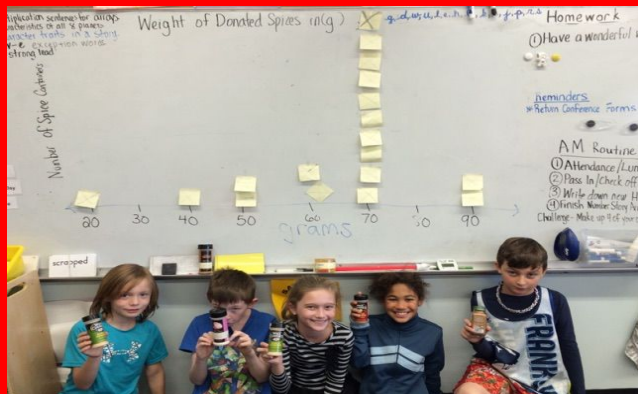
Kindergarten- Created a graph using boxed potatoes



Grade 1- Sorted and tallied bread types



Grade 2- Organized donated desserts and represented results in charts and graphs



Grade 3- Created a line plot using the sizes of spice containers



Grade 4- Used grocery ads to plan a meal



Grade 5- Calculated costs and serving sizes in a bag of donated groceries

Grade 5 Family Math Morning



Parents and students explore comparing decimals with blocks



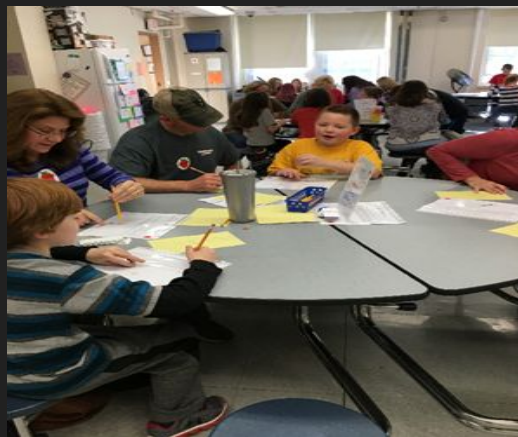
Students and parents play a multiplication game



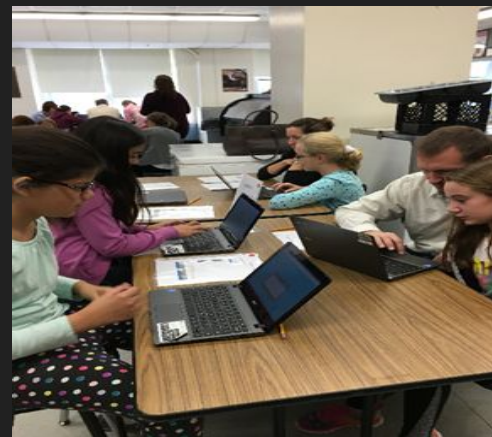
Examples of Math Literature on display



"Bedtime Math" App: Smartphone app that gives a nightly math problem



Math Morning participants use spinners to add and subtract decimals



Fifth graders use Chromebooks during Math Morning



Parents and students create triangles to compare the value of digits

Grade 4 Family Math Morning



Math morning participants play a friendly game of "Multiplication Baseball"



Students show adults how to round with the game "Roll It"



Strategy, Reasoning, and Spatial Perception

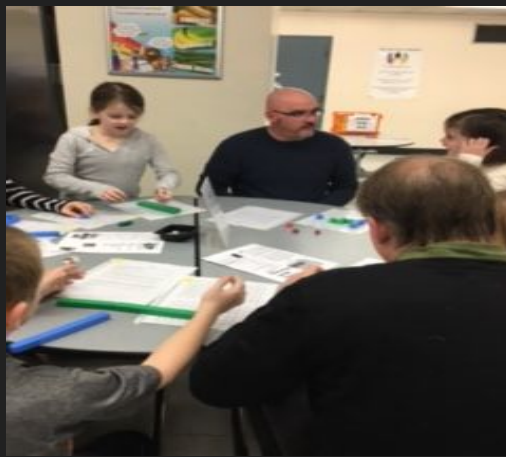
- Mastermind (8+)
- Monopoly, Junior (8+)
- Mousetrap (6+)
- Apples to Apples, Junior (9+)
- The Game of Life (9+)
- Yahtzee (9+)
- Battleship (7+)
- Connect Four (7+)
- Othello (8+)

Parents were given a list of fun board games that incorporate math skills in a fun way

Grade 3 Family Math Morning



Third graders explore place value



Parents and students roll dice and round numbers



Students show parents how to use Chromebooks to solve word problems



Math Morning participants practice multiplication

Math Websites

> Math Playground

Free collection of online math games for grades K-6 organized by grade and common core standards. Check out the "Thinking Block" section, it is great practice for word problems.

<http://www.mathplayground.com>

> Abcya

Free collection of online math games for grades K- 5 organized by grade and math topics.

<http://www.abcya.com>

> Sheppard Software

Free collection of online math games for grades K- 8 organized by math topics.

<http://www.sheppardsoftware.com/math.htm>

Helpful websites that are easy for students to navigate and use

Problem of the Week

K-5

Exemplars

Post Office Display

See notes for suggestions. Keep trying!

Last week I brought the stamps my class made down to the post office to hang up. Keron, the postmaster, said she had other things to display and wanted to know how much space was needed to hang up all the stamps.

If the stamps are 8.5" x 11" and there are 17 of them, what would you tell her? How did you come to this solution?

$$\begin{array}{r} 8.5 \\ \times 11.0 \\ \hline 85.0 \\ 850.0 \\ \hline 935.0 \end{array}$$

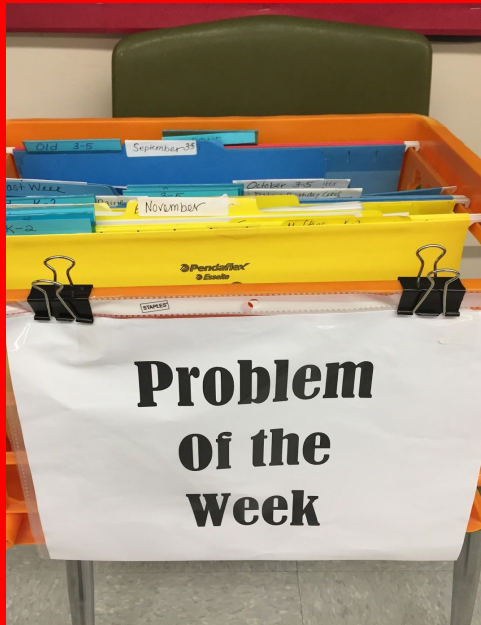
$$\begin{array}{r} 935 \\ \times 17.0 \\ \hline 65450 \\ 93500 \\ \hline 158950 \end{array}$$

This strategy gives Keron the area of the display, which may not be helpful.

Suggestion:
Try to draw the display. How would you arrange 17 stamps in a display?

Probably not ~~arrange~~
Maybe you would put space between them. How would that affect the space you need?

I got my answer by doing 8.5×11.0 and got 93.50. I did this because I had to find what one stamp is that I did 93.5×17.0 because there are 17 stamps. And I got 1589.50. And the final



2016 Math Challenge

Write an equation for each of the numbers 0-20 using only the digits 2, 0, 1, and 6.

You cannot use any other numbers and you must use each digit exactly once in each equation.

You can use +, -, x, and ÷.

You can group the digits to create 2-digit and 3-digit numbers if you would like to.

Use the table below to keep track of your equations.

Correct example: $20 = 2 \cdot 0 + 1 + 6$ (you used the digit 2 twice)

Great Try!

0 =	2 + 0 + 1 + 6	incorrect
1 =	2 + 0 + 1 + 6	incorrect
2 =	2 + 0 + 1 + 6	incorrect
3 =	2 + 0 + 1 + 6	incorrect
4 =	2 + 0 + 1 + 6	incorrect
5 =	2 + 0 + 1 + 6	incorrect
6 =	2 + 0 + 1 + 6	incorrect
7 =	2 + 0 + 1 + 6	incorrect
8 =	2 + 0 + 1 + 6	incorrect
9 =	2 + 0 + 1 + 6	incorrect
10 =	2 + 0 + 1 + 6	incorrect
11 =	2 + 0 + 1 + 6	incorrect
12 =	2 + 0 + 1 + 6	incorrect
13 =	2 + 0 + 1 + 6	incorrect
14 =	2 + 0 + 1 + 6	incorrect
15 =	2 + 0 + 1 + 6	incorrect
16 =	2 + 0 + 1 + 6	incorrect
17 =	2 + 0 + 1 + 6	incorrect
18 =	2 + 0 + 1 + 6	incorrect
19 =	2 + 0 + 1 + 6	incorrect
20 =	2 + 0 + 1 + 6	incorrect

Here is an example of a 5th grader's work. The questions asks the student to find the space needed to hang a display. The Post-it Note to the left provided feedback to help the student fix errors.

This 2nd grader decided to complete the New Year's Challenge. He tried to create 20 equations using only the numbers 2, 0, 1 and 6. The highlighted areas include feedback about the student's work.

Grade Level Work CPT, PLC, PD



Our kindergarten team hard at work with Ms. Violet! The team analyzed the kindergarten mid-year math screener in relation to the report card to fully understand the learning expectations for math and assessment of student growth and progress.



Our third grade team is busy discussing different types of math questions on PARCC. They are analyzing specific types of questions and discussing strategies to ensure all students' success.

Individual Class Support

- Classroom Demonstrations
- Co-Teaching
- WIN Planning
- EA Training



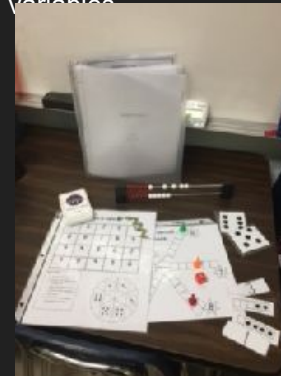
Above, Ms. Violet co-teaches with second grade teacher, Ms. Auld. Together they work with students to create number lines counting by fives.



In the second part of this lesson, students turn the number lines into clocks, reinforcing the concept of counting by fives to tell time.



In this picture, Ms. Violet is leading a small group demonstration in a third grade classroom. Students are learning about balancing an equation and variables.



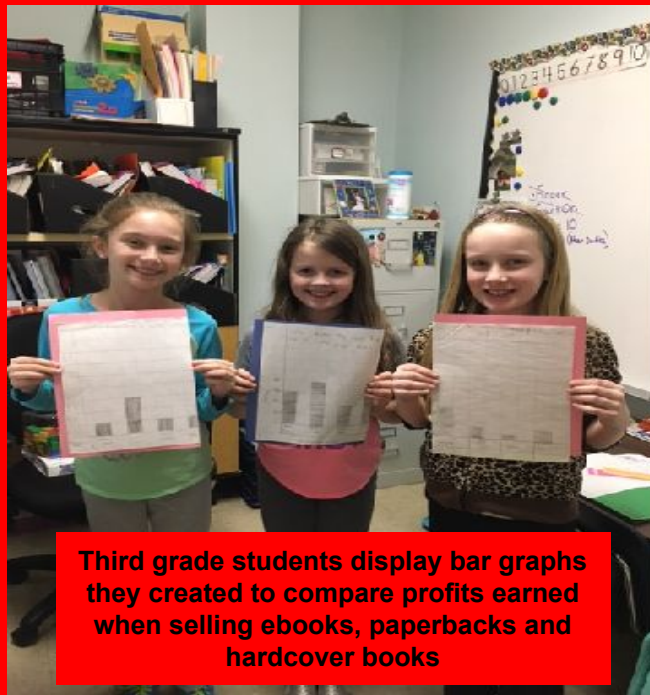
To the left is a picture of the EA "Tool Kit" from the K-3 EA training.

Student Support

- Enrichment projects
- Assessment
- Intervention groups



Fourth graders design a scaled football field to display an NFL project



Fifth grade students create pie charts and advertising posters after completing a book sales project



THANK YOU!

