

WELCOME TO MATH NIGHT AT WAKELON



OCTOBER 17, 2019

KIM BOWLING
INSTRUCTIONAL MATH COACH

kbowling@wcpss.net

TOPICS FOR TONIGHT

Math Then vs Math Now

Resources Available to You

Supporting You So You Can Support Them

MATH THEN

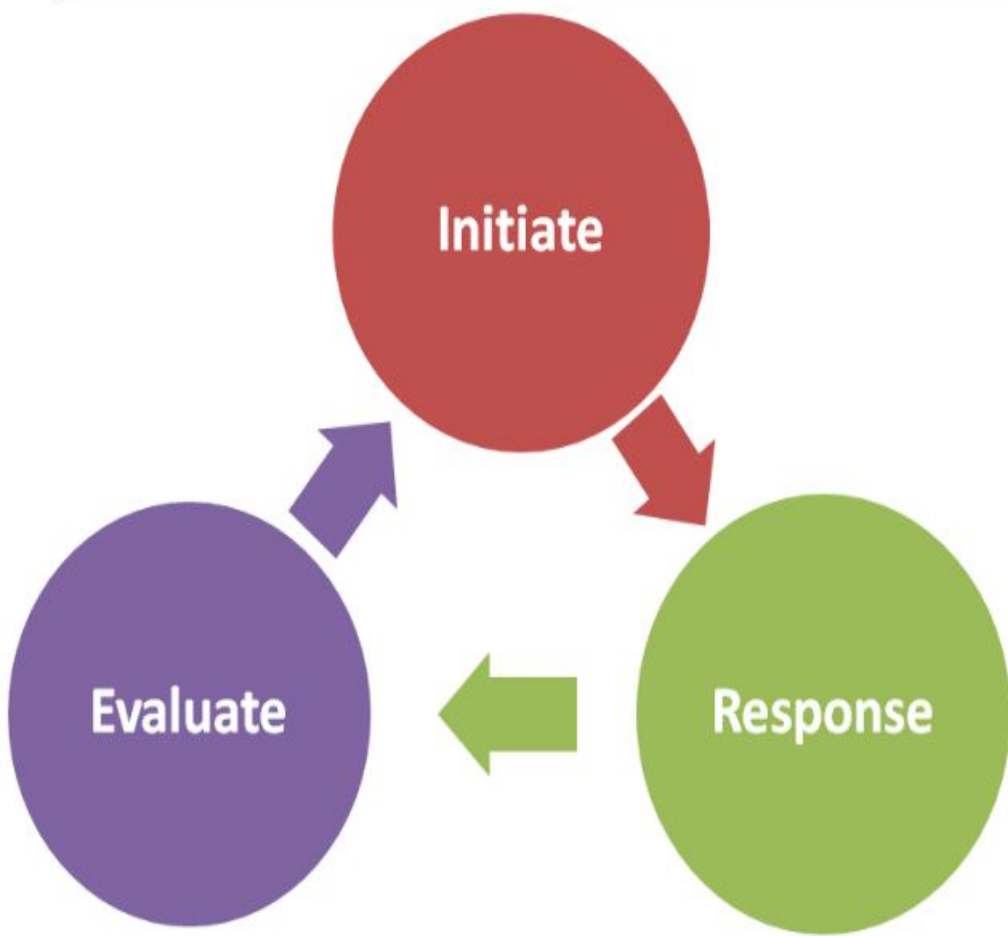
VS

MATH NOW

Let's Briefly Look at the Difference

MATH

THEN



Teacher asks a question
(with a specific answer in mind)



In less than five seconds, a
student is selected to answer.



After a student provides an
answer, the teacher quickly
evaluates the response (or
provides the right answer).



Repeat

Name : _____

Score : _____

Teacher : _____

Date : _____

$$\begin{array}{r} 5 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 8 \\ \hline \end{array}$$

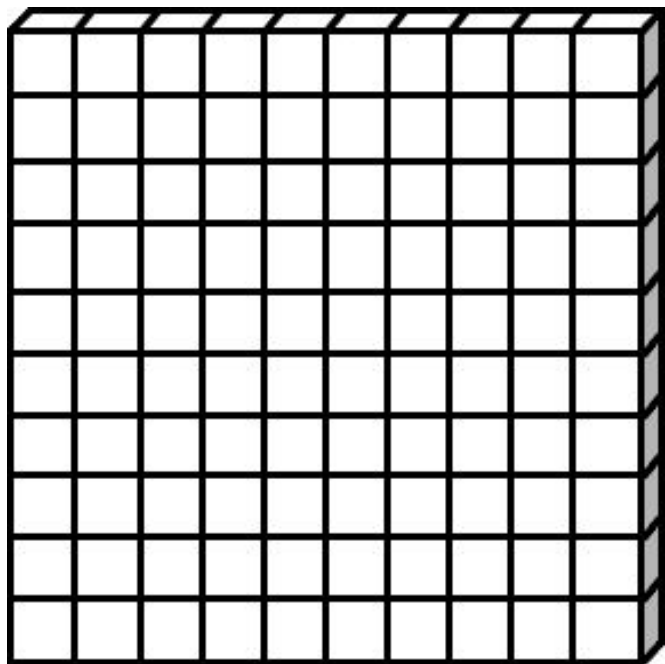
MULTIPLY 39 x 72

$$\begin{array}{r} \overset{6}{\cancel{1}} 39 \\ \times 72 \\ \hline \overset{1}{} 78 \\ + 2730 \\ \hline 2808 \end{array}$$

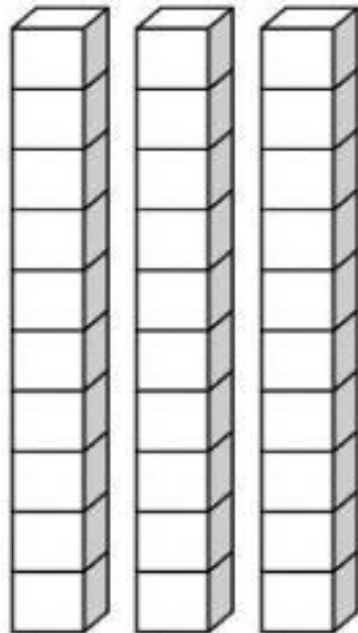
MATH

NOW

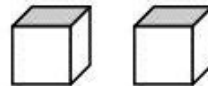
REPRESENT 132 TWO DIFFERENT WAYS.



1 hundred

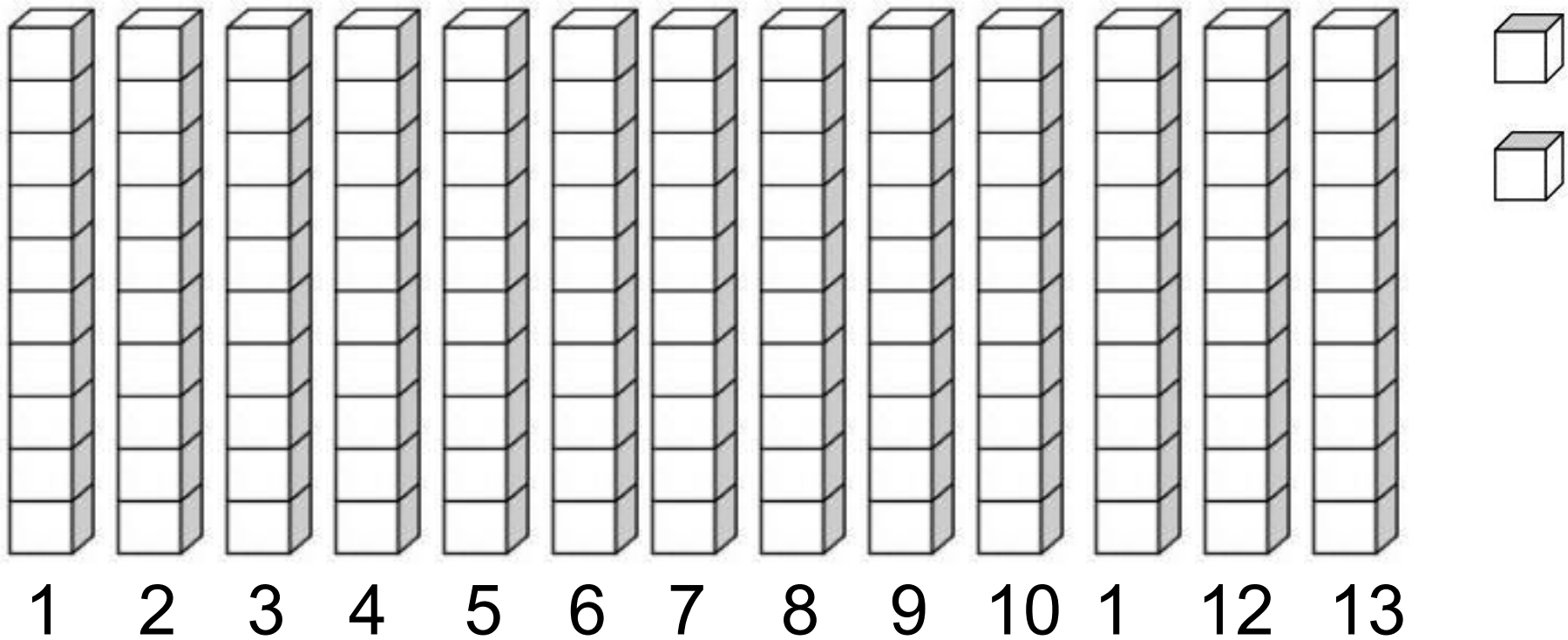


3 tens



2 ones

REPRESENT 132 TWO DIFFERENT WAYS.



FIND THE AREA OF A RECTANGLE MEASURING 39 BY 72

(39 x 72)

30

+

9

30 x 70

2,100

9 x 70

630

70

30 x 2

60

9 x 2

18

+

2

2,100 + 630 + 60 + 18 = 2,808 square units

A DIRECT COMPARISON

MULTIPLY 39×72

$$\begin{array}{r} \overset{6}{\cancel{1}} 39 \\ \times 72 \\ \hline 178 \\ + 2730 \\ \hline 2808 \end{array}$$

FIND THE AREA OF A RECTANGLE MEASURING 39 BY 72
(39×72)

30	30×70 2,100	30×2 60
+ 9	9×70 630	9×2 18
	70	+ 2

$$2,100 + 630 + 60 + 18 = 2,808 \text{ square units}$$

EXPECTATIONS

NOW

ADDITION AND SUBTRACTION

The way that we were taught to add and subtract is not being taught until 4th grade.

Teachers are wanting students to show they understand what it means to borrow from a different place value.

“Ungroup” means “Borrow” in a subtraction problem

“Regroup” means “Carry” in an addition problem

MULTIPLICATION

Students are not expected to use cross-multiplying until 5th or 6th grade.

Students to use strategies related to place value and are not using a procedure until middle school.

Students are not being asked to just “memorize” their multiplication facts.

Teachers want students to understand that multiplication is a quick way to skip count.

WHY THE CHANGE????



WHY THE CHANGE?

The state acknowledged that the previous standards did not prepare students to think critically and they standards did not focus on if a student understood the “why” behind the math.

The state adopted Common Core to address these concerns.

The state revised the standards for North Carolina two years ago, resulting in the new Math EOG last year.

WHY THE CHANGE?


The current standards focused more on applying the standards.

By focusing more on understanding ones, tens, hundreds, students are able to understand the way that we were taught to add, subtract, multiply and divide.

Students are not just memorizing a procedure that they will forget after the test.

WE ARE PREPARING
STUDENTS FOR JOBS THAT
HAVEN'T BEEN
INVENTED YET.

SO WHAT RESOURCES ARE
AVAILABLE FOR YOU TO SUPPORT
YOUR CHILDREN?



WCPSS K-12 MATH WEBSITE
FOR FAMILIES

HOW CAN I GET THERE?

WAKELON'S HOMEPAGE

Blue bar across the top, select Parents

Scroll down to Homework Resources

Click on Math Grades K-12 link

WCPSS CREATED VIDEOS TO
EXPLAIN THE STRATEGIES USED IN MATH

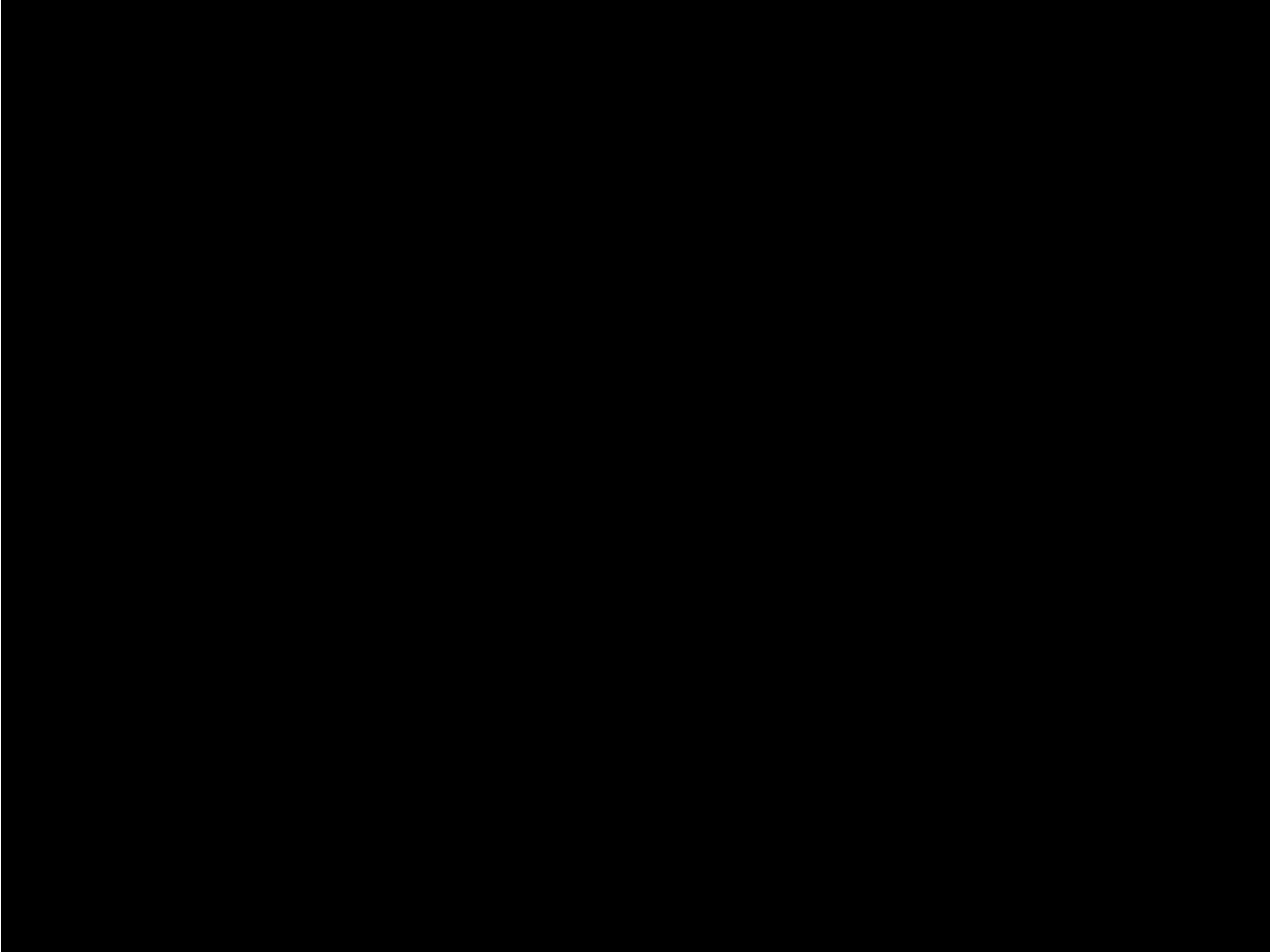
LINK AND QR CODE AVAILABLE IN YOUR ENVELOPES

The screenshot shows a YouTube channel page for 'TheWCPSSAcademics'. The channel has 348 videos and 195,646 views, last updated on Sep 1, 2016. The main video player shows a playlist titled 'ES Math'. To the right, a list of five videos is displayed:

- 1. ES 4 Math Division with Area Model (3:02)
- 2. ES 4 Math Add and Subtract with Show Subtotals Method (4:11)
- 3. ES 4 Math Division with Base Ten Blocks (2:32)
- 4. ES 4 Math Division with Expanded Notation (3:08)
- 5. ES 4 Math Whole Number Multiplication w Base Ten Blocks (3:24)

The channel name 'TheWCPSSAcademics' is shown with a 'SUBSCRIBED' button and a notification bell icon. The left sidebar shows navigation options like Home, Trending, Subscriptions, Library, History, Watch later, New Math Stand..., Liked videos, and The Greatest Sho... The bottom left shows subscriptions for 'SIS vs BRO', 'The LaBrant Fa...', and 'CookieSwirlC'.

DREAMBOX



WHAT IS DREAMBOX?

DreamBox is an online adaptive math program that is aligned to the North Carolina math standards.

The program looks at not just an answer, but the strategy the student used (where did they click, if they needed a hint, which manipulatives they used, etc).

Students progress through the standards at their pace.

WHAT IS DREAMBOX?

DreamBox does not replace the teacher.

It supports students

- reviewing concepts from previous grades
- understanding content they are currently studying
- exposing students to upcoming standards

USING DREAMBOX

Students only use the manipulatives provided through the program. (no paper, pencil, calculators, etc)

Students only receive assistance with getting on the app.

No assistance from a teacher is provided with the content in the app. Each lesson has a help button students can press.

Students need to be able to listen to the lessons so that they can understand what they are being asked to do.

PHASING IN DREAMBOX AT WAKELON

Students in grades 3-5 have been using DreamBox for 3-4 weeks at school.

Students in second grade are beginning to use the program this week.


Students in first grade and kindergarten will begin using the program in a few weeks.

DREAMBOX OUTSIDE OF SCHOOL - USING A COMPUTER

iPad 2:13 PM 82%

wakeid.wcpss.net

My WakeID WakeID Po... CarolinaWate... Billing Waste Indust... basketball pl... BoJangles Gi... www.thedan... How To Emb...



**WAKE COUNTY
PUBLIC SCHOOL SYSTEM**

Enter your WakeID credentials to Log In

Select User Type

Your WakeID

Continue to Log In >

Scan QR Code (K-2 Only) >

Students do not need to claim their WakeID account.
WCPSS Staff must claim their WakeID account prior to their first login. Need help? Visit <http://mywakeid.wcpss.net>.

Claim My Account



DREAMBOX OUTSIDE OF SCHOOL - USING A TABLET OR IPAD



Wakelon Elementary Classrooms

classroom

Classroom Code

PLAY

No classroom code?
[Click here.](#)

BACK

Must download the free app

Cannot be used on a phone

Username and Password information included in your envelopes.

Kindergarten & first grade students have picture passwords.

WHAT'S INSIDE THE
ENVELOPE?

INSIDE YOUR ENVELOPE

3rd Grade Math at a Glance for Parents 2019-2020

3 rd Grade Math at a Glance for Parents 2019-2020						
First Quarter			Second Quarter			
Unit	Building Mathematical Community & Understanding Equal Groups	Using Data to Solve Problems	Stories with Addition & Subtraction	Stories with Addition & Subtraction (cont'd)	Making Sense of Multiplication & Division	Reasoning with Shapes and their Attributes
Standards Assessed	NC.3.OA.1 NC.3.OA.3 NC.3.OA.9	NC.3.MD.3	NC.3.OA.8 NC.3.NBT.2	NC.3.OA.8 NC.3.NBT.2	NC.3.OA.1 NC.3.OA.2 NC.3.OA.3 NC.3.OA.6	NC.3.OA.7 NC.3.OA.8 NC.3.OA.9 NC.3.NBT.3
Big Ideas on the Elementary Report Card	<ul style="list-style-type: none"> Represent and solve problems involving multiplication and division. Multiply and divide within 100. Represent and interpret data. Use place value understanding and properties of operations to perform multi-digit arithmetic. 			<ul style="list-style-type: none"> Use place value understanding and properties of operations to perform multi-digit arithmetic. Solve problems involving the four operations, and identify and explain patterns in arithmetic. Understand properties of multiplication and the relationship between multiplication and division. Multiply and divide within 100. Reason with shapes and their attributes. 		
Third Quarter			Fourth Quarter			
Unit	Applying the Operations to Area & Perimeter	Understanding Fractions as Parts of a Whole	Using Tools to Measure Length, Weight, and Capacity	Understanding Time		
Standards Assessed	NC.3.MD.5 NC.3.MD.7 NC.3.MD.8	NC.3.NF.1 NC.3.NF.2 NC.3.NF.3 NC.3.NF.4	NC.3.MD.2	NC.3.MD.1		
Big Ideas on the Elementary Report Card	<ul style="list-style-type: none"> Geometric measurement: understand concepts of area and relate area to multiplication and to addition. Geometric measurement: recognize perimeter as an attribute of plane figures and distinguish between linear and area measures. Develop understanding of fractions as numbers. 			<ul style="list-style-type: none"> Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects. Solve problems involving the four operations, and identify and explain patterns in arithmetic. 		

An outline of what your child will learn in math this year (from the WCPSS Website)

pink paper

INSIDE YOUR ENVELOPE

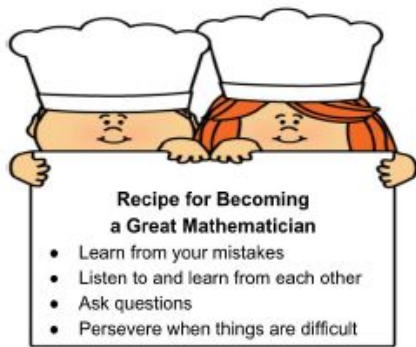
Kindergarten Family Letter Becoming a Great Mathematician through Classroom Community

Dear Families,

During the first few weeks of Kindergarten, the focus in math will be to develop our classroom community and to foster a **growth mindset**. New evidence from brain research tells us that everyone can be a mathematician, learning mathematics at the highest levels. Evidence suggests that the difference between those who succeed in math and those who don't is not based on the brains they were born with, but rather their mindsets. Individuals with a **fixed mindset** believe that people are either smart or not smart. In contrast, *"in a growth mindset, people believe that their most basic abilities can be developed through dedication and hard work—brains and talent are just the starting point. This view creates a love of learning and a resilience that is essential for great accomplishment."* (Dweck, 2015).

As your child's teacher, I believe in the power of a growth mindset. This newsletters provides resources for helping your child develop a growth mindset, and become a great kindergarten mathematician.

Your Partner in Learning,



Letters in English and Spanish about what what your child has learned in math from this quarter and what they will learn next quarter.

blue or yellow papers

INSIDE YOUR ENVELOPE



Dear Parent/Guardian,

Wakelon has begun using DreamBox Learning Math, a K-8 digital math program that is a rigorous and highly adaptive math curriculum that students access online. It meets the educational needs of each individual learner, adjusting and re-adjusting in the moment as they engage in a fun learning environment.

For additional resources provided by Wake County, you can visit the links below.

WCPSS K-12 Parent Resources <http://bit.ly/2VBwQto>



WCPSS Academics Instructional YouTube Videos <http://bit.ly/2Mak5Tu>



A letter about DreamBox

Information about logging
into DreamBox.

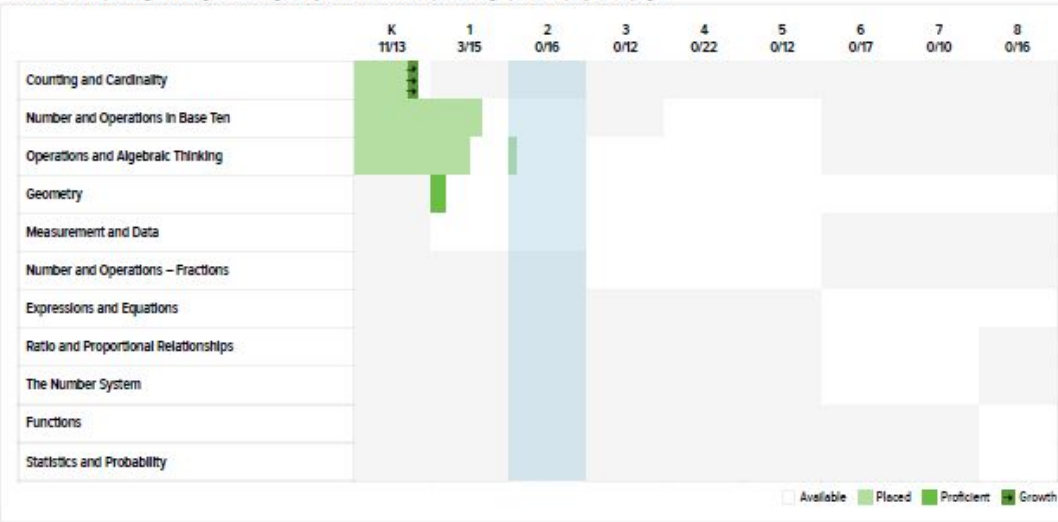
Your child's specific
username, password, and
classcode are stapled to
the front and the
information is
highlighted for you.

green or white papers

INSIDE YOUR ENVELOPE

Proficiency As Of October 13, 2019

Please enable printing of background images, styles, and colors to print the graph as displayed on page



For grades 3–5 only:

a report on how your child is progressing through the standards on DreamBox over the last 30 days, as well as what they are currently working on.

golden yellow papers

INSIDE YOUR ENVELOPE

**Wakelon Elementary School Family Engagement
Math Night Survey
October 17, 2019**

Directions: Parents please share your thoughts about the event. You have 3 ways to submit your response, but ONLY CHOOSE ONE.

1. <http://bit.ly/33yjGiy>



2. Take a pic of the QR code using your camera

3. Paper (Answer below)

- Overall, how would you rate the event?

1 2 3 4 5
Poor Excellent

- What method of communication was used to inform you of this event?

A survey about your experience this evening.

This information helps us to continue to improve for future events.

Paper copies may be turned in at the front desk before you leave.

white paper

SUPPORTING YOU SO YOU CAN SUPPORT THEM

I hope you find that this information will give you the tools that you need to help your child have a successful school year.

SUPPORTING YOU SO YOU CAN SUPPORT THEM

In a moment, you will visit your child's teacher
Fifth grade families will visit the green room at the end of the first grade hall.

Teachers will be

- reviewing what math looks like in their class
- teaching a couple of strategies or activities you can do at home with your child
- Students in grades 3-5 will be able to show you DreamBox

THANK YOU FOR YOUR TIME THIS
EVENING. PLEASE LET ME KNOW
IF YOU HAVE ANY QUESTIONS.



KIM BOWLING



INSTRUCTIONAL MATH COACH

KBOWLING@WCPSS.NET