Effective Data Protocols that Maximize Precious Meeting Time

Facilitated in partnership by

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Inkster Preparatory Academy

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Academic Performance and Accountability
The Governor John Engler Center for Charter Schools
Central Michigan University

January 2020



Give One to Get One

On an index card answer the two questions



On a sticky note tell us what you are hoping to take away from today's session.









Review of Norms

- Take an inquiry stance
- Ground statements in evidence
- Assume positive intentions and take responsibility for impact
- Stick to protocol and hear all voices
- Start and end on time
- Be here now



"Deposit" one penny in the center of the table and share one thought about the norms

After everyone has "deposited" the first penny, "deposit" the second penny and respond by telling the group which norm might be most challenging for you

After all the pennies have been "deposited," discuss ways to support the community when we deviate from the norms

AGEND

9:25 - 10:15 - Effective Data Protocols - Part I

10:15 - 10:25 - BREAK

10:25 - 11:45 - Effective Data Protocols - Part II

11:45 - LUNCH

12:30 – 2:45 - Using Data Protocols to Increase Student Achievement Part II

2:45 - 3:00 - Closure



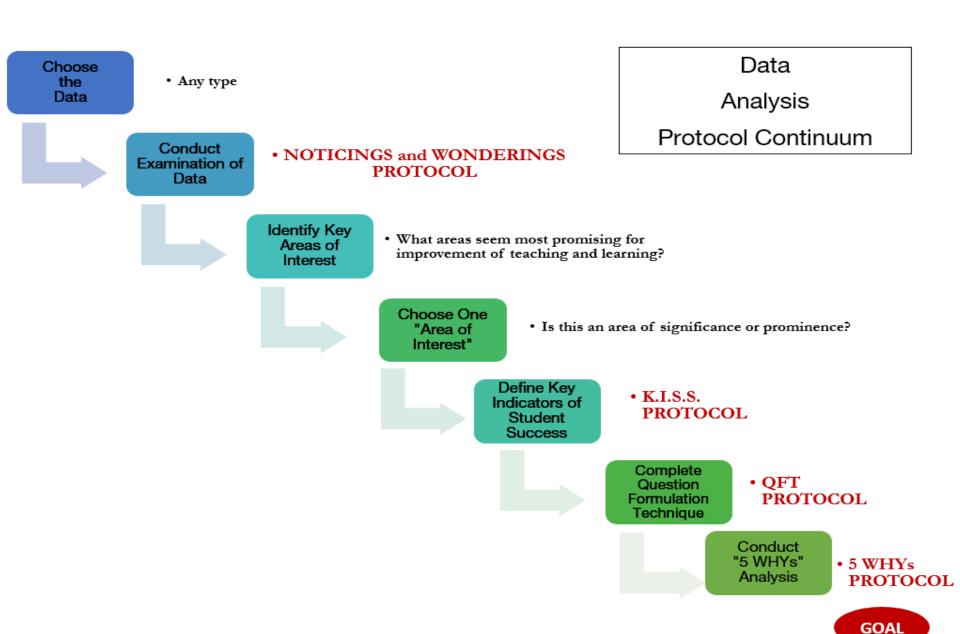
Session Objectives

- 1. Learn to utilize four (4) high leverage data protocols.
- 2. Experience how high leverage data protocols can increase the productivity of data meetings.
- 3. Reflect on strategies to increase student achievement.
- 4. Explore essential components to increase student achievement.
- 5. Understand what strategies are needed and how it might look in your classroom or at your school.





Effective Data Protocol Overview



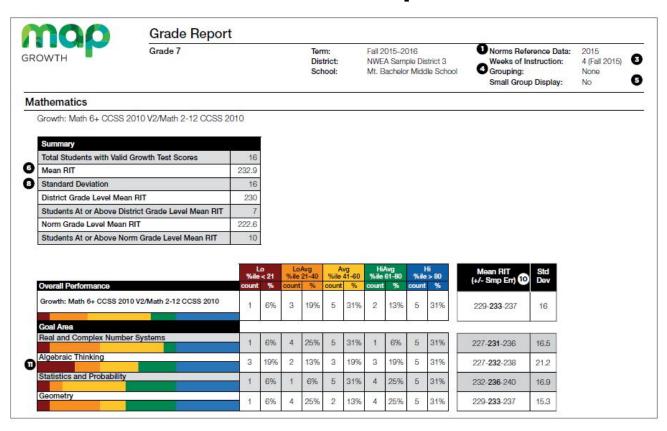
Time to Work



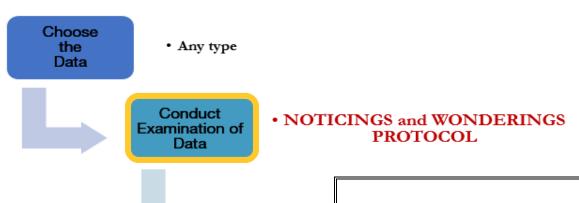


Any type

NWEA Grade Report



Effective Data Protocols - Noticings and Wonderings



- I notice that the Norm Grade Level RIT is 182.4.
- I notice that there are 19% or 3 students in the low category for the Goal Area of Algebraic Thinking.

I Notice	I Wonder
Evidence based	1
Judgment free	2
Solution free	3
4 Neutral	4
5	5
6	6



Each person shares their "I notice" statement

 Group members listen and make no comment; record thoughts and/or questions

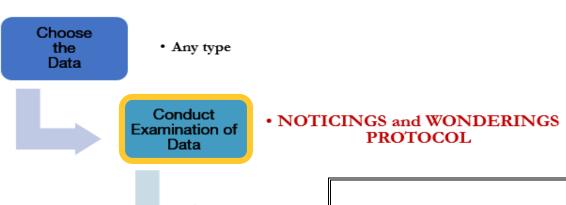
Proceed until everyone has shared

Repeat

Mark
"noticings"
that are
alike/similar



Effective Data Protocols - Noticings and Wonderings

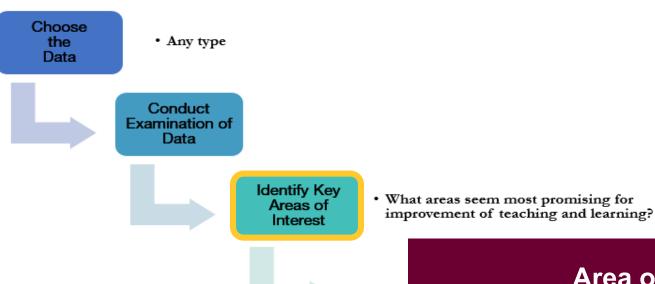


- I wonder what the specific skills in the Real and Complex Number Systems that students in the Lo / Lo Avg category struggle with most?
- I wonder what might be the connection between Real and Complex Number Systems and Algebraic Thinking for students in the Lo / Lo Avg category?

I Notice	I Wonder
1	¹ Area of Curiosity
2	² No attempt to solve
3	3 How are data connected?
4	4 What do the data imply?
5	5
6	6

Share

- Each person shares their "I'm wondering" statement
- Group members listen and make no comment; record thoughts and/or questions
- Proceed until everyone has shared
- Repeat



- Is this an area that has been reoccurring over the past several years?
- If we were to address this "area of interest" would it make a significant difference in student outcomes?
- What might happen if we were to "ignore" this area of interest?

Area of Interest

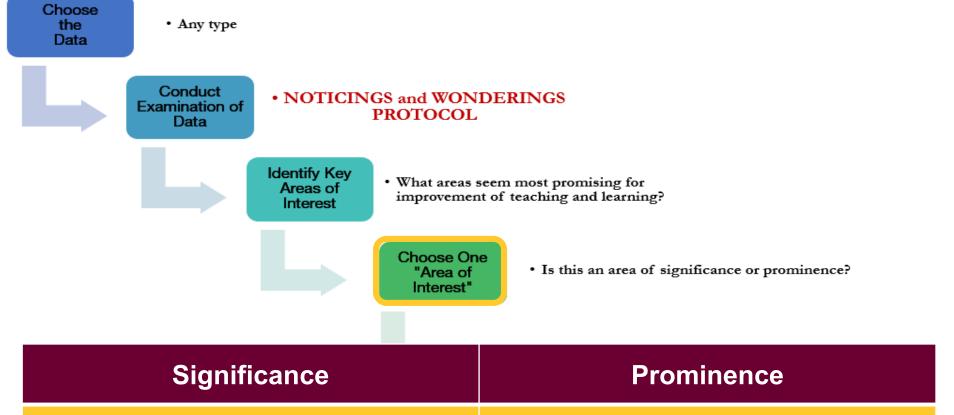
- 1. Math
- 2. Real and Complex Number Systems

Will addressing this area of interest provide the level of information that will lead to identifying gaps in teaching and/or learning?





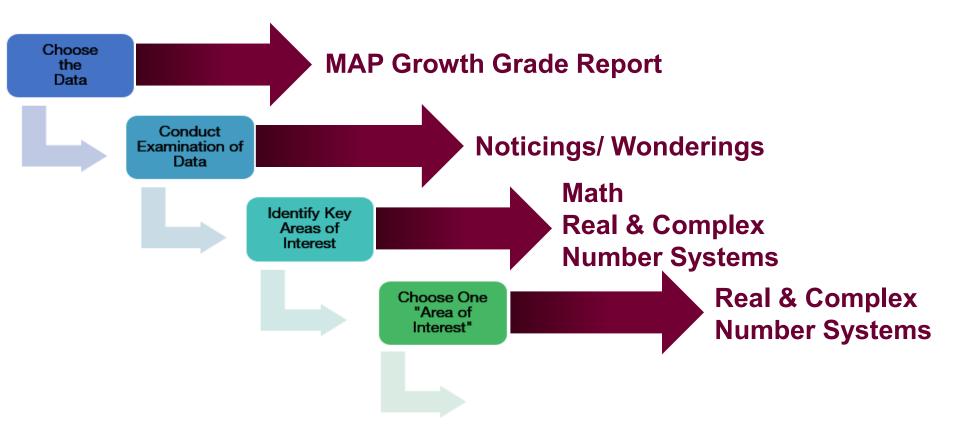
How important is the gap?



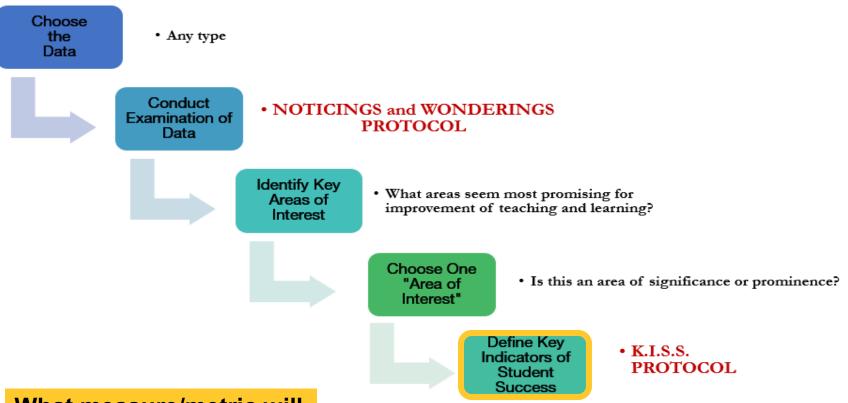
How common is the gap?







Effective Data Protocols – K.I.S.S.



What measure/metric will be utilize to determine student success?

What does student success "look like" and "sound like" at the mastery level?

- 1. Percent of students deemed college ready after administration of the spring NWEA assessment
- 2. Percent of students deemed proficient on the state assessment
- 3. Percent of students scoring ≥ 3 on writing rubric

Putting It All Together

- Math
- Real and Complex Number Systems
- K.I.S.S.
 - Percent of students decreases in Lo/LoAvg in Real and Complex Number Systems
 - Percent of students projected to be proficient on M-STEP





AGEND

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10:15 - 10:25 - BREAK

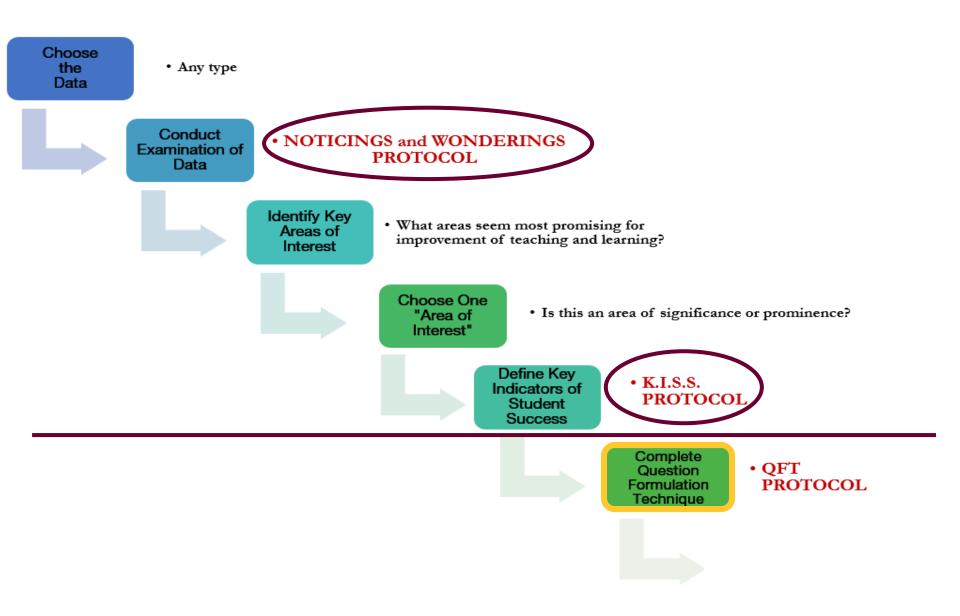
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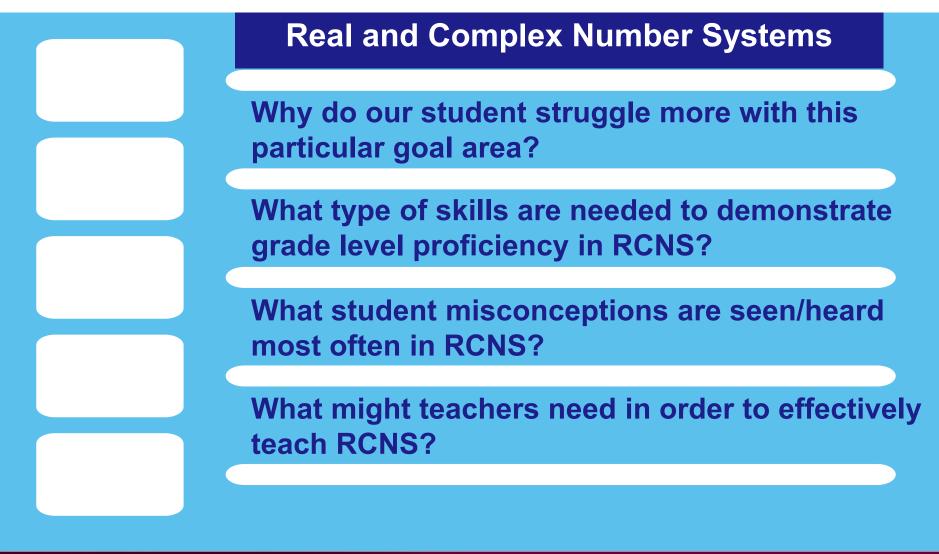
Asking the right questions keeps us out of "solution" mode while examining the data.

Noteworthy patterns emerge from this protocol that assist in finding the root cause.

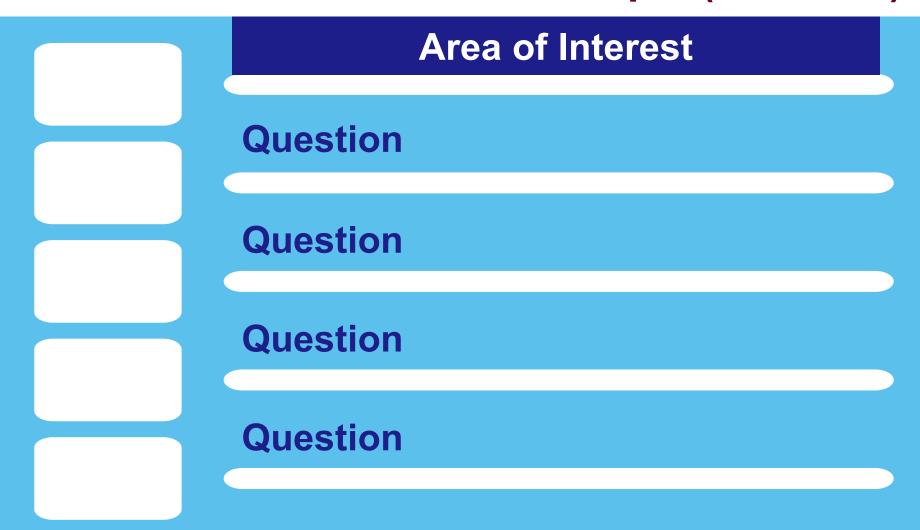
Questions are formed in the open-ended rather than closed-ended format.

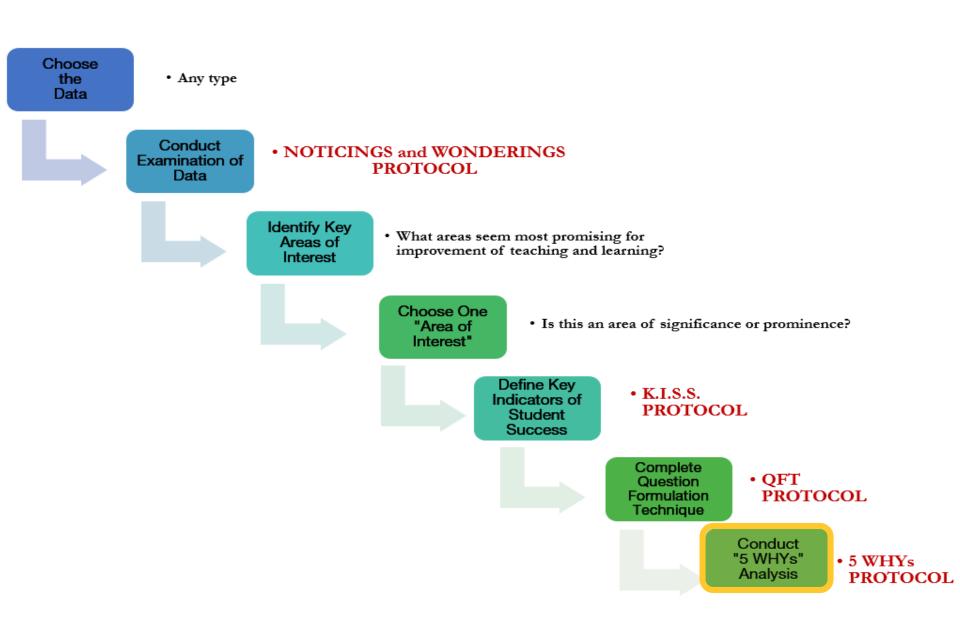


Question Formulation Technique (Modified)



Question Formulation Technique (Modified)





Root Cause Analysis

Why is the Washington Monument disintegrating?

Because of harsh cleaning chemicals

Why do we use harsh chemicals?

To clean off pigeon poop

Why are there so many pigeons?

They like to eat spiders. Lots of spiders

Why are there so many spiders?

They like to eat gnats. Lots of gnats

Why are there so many gnats?

The are attracted to the lights.

Turned on at dusk





Root Cause Analysis



Because



Because

Why?

Because

Why?

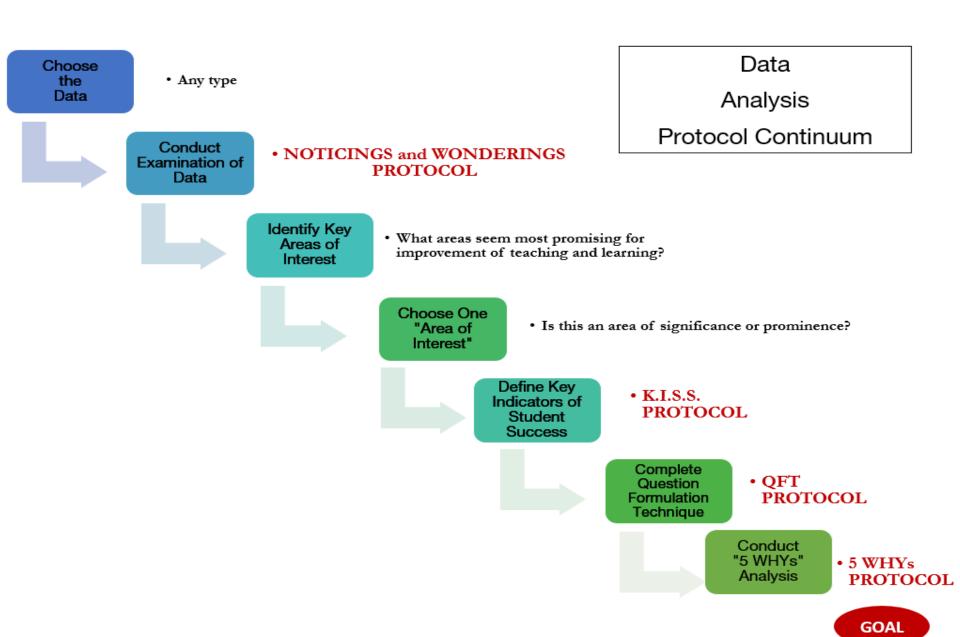
Because

Why?

Because



The Governor John Engler
Center for
Charter Schools







Give One to Get One

- 1. Find someone you haven't spoken with yet today.
- 2. Take turns sharing your MIP with one another.
- 3. Each has 1 minute to share!









It's time for LUNCH!

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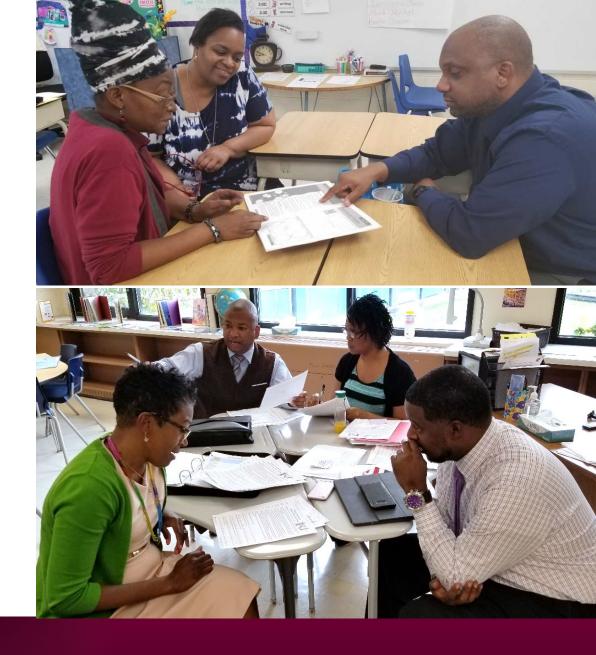


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Using Data
Protocols to
Increase Student
Achievement



Outcomes of the Session

- You will reflect on strategies to increase student achievement.
- You will be introduced to the essential components to increase student achievement.
- You will understand what strategies are needed and how it might look in your classroom or at your school.



Student Growth Summary Report

Aggregate by School

Term: District: Spring 2018-2019

Inkster Preparatory Academy

Norms Reference Data:

Growth Comparison Period: Weeks of Instruction: 2015 Norms Fall 2018 - Spring 2019

> art - 4 (Fall 2018) nd - 30 (Spring 2019)

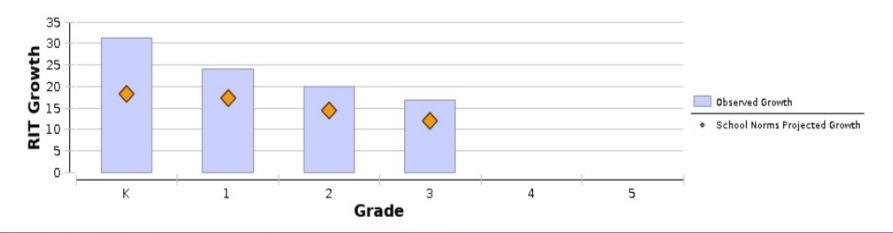
Grouping: None Small Group Display: No

Inkster Preparatory Academy

Mathematics

nematics																
	,		Comparison Periods							Growth Evaluated Against						
		1	Fall 2018	3	5	Spring 201	19	Gr	rowth		School Norms	/S		Student Norms		
Grade (Spring 2019)	Growth Count‡	Mean RIT	SD	Percentile	Mean RIT	SD	Percentile		d Observed Growth SE		School Conditional Growth Index		Count with Projection			Student Median Conditional Growth Percentile
K	30	137.4	12.0	35	168.6	12.9	95	31.2	2.6	18.3	4.96	99	30	27	90	96
1	41	164.1	11.2	62	188.1	13.1	91	24.0	2.2	17.3	2.42	99	41	29	71	67
2	42	172.4	10.1	22	192.4	10.0	57	20.0	1.8	14.4	2.26	99	42	26	62	75
3	25	184.2	12.0	15	201.0	17.7	40	16.8	2.2	12.0	2.37	99	25	13	52	58
4	9	*			*			*					*			
5	2	*			*			*					*			

Mathematics







Student Growth Summary Report

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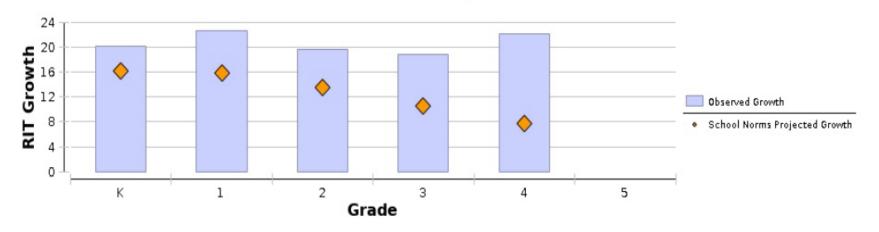
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Inkster Preparatory Academy

Reading

eauling			Comparison Periods						Growth Evaluated Against							
			Fall 2018	3	S	pring 20	19	Gr	owth	School Norms Student Norms						
Grade (Spring 2019)	Growth Count‡	Mean RIT	SD	Percentile	Mean RIT	SD	Percentile		Observed Growth SE		School Conditional Growth Index	School Conditional Growth Percentile	Count with Projection	Count Met Projection	Percent Met Projection	Student Median Conditional Growth Percentile
K	30	139.6	6.3	41	159.9	15.4	69	20.2	2.7	16.2	1.54	94	30	20	67	68
1	41	159.1	11.0	39	181.7	14.1	78	22.6	2.1	15.9	2.60	99	41	29	71	69
2	44	168.9	14.8	18	188.6	13.0	53	19.7	2.1	13.5	2.68	99	44	29	66	68
3	26	178.7	13.3	8	197.5	16.6	45	18.8	3.2	10.5	4.44	99	26	20	77	68
4	10	187.5	11.6	5	209.6	18.5	73	22.1	4.8	7.8	9.24	99	10	8	80	98
5	2	*			*			*					*			

Reading













Why do we need High Performing Schools?

- 40% of children living in poverty aren't prepared for primary schooling.
- Studies have found that by age four, children in middle and upper class families hear 30 million more words than children in families on welfare.
- By the end of the 4th grade, African-American, Hispanic and lowincome students are already two years behind grade level. By the time they reach the 12th grade they are four years behind.
- More than 30 million children are growing up in poverty. In one low-income community, there was only one book for every 300 children.





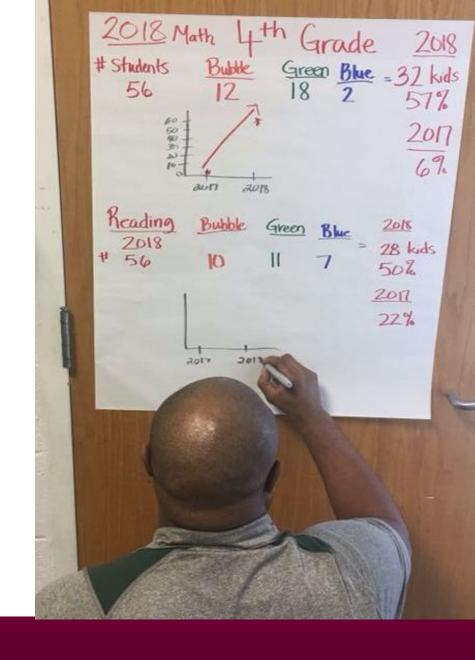
Massive failure cannot be the norm for students.

Far too many of our kids arrive at school with less... vocabulary, preschooling, educational learning experiences, books in the home, parents in the home, supplies and materials associated with learning and school, safe environment, and more. And what do we give them? They come with less and, in return, we give them less.



Raising the Achievement Bar

What process do you have in place to address student achievement at your school?



How can this be achieved at your school?

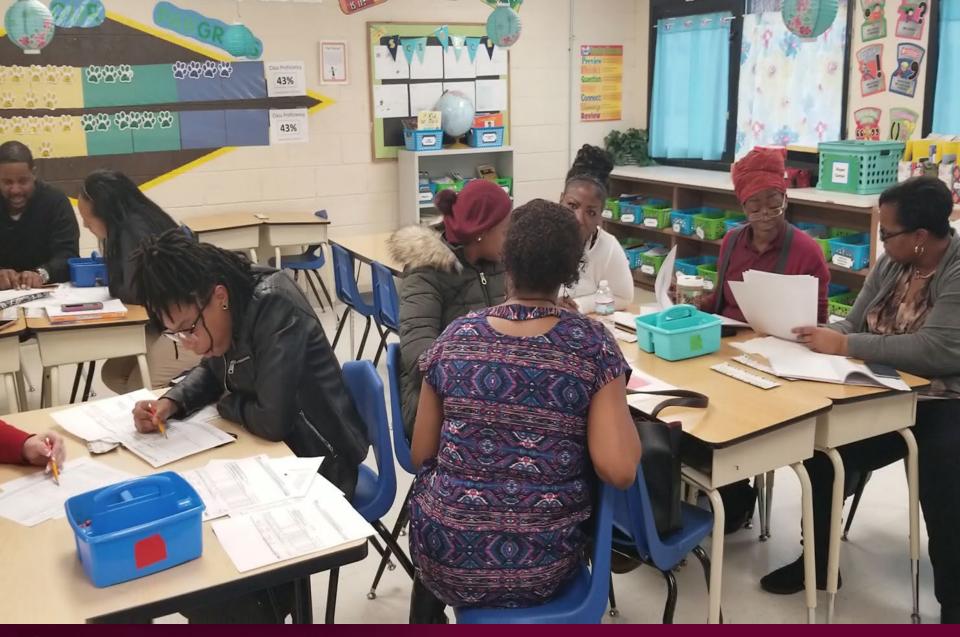


Practices that are important for Great Teachers and Model Schools

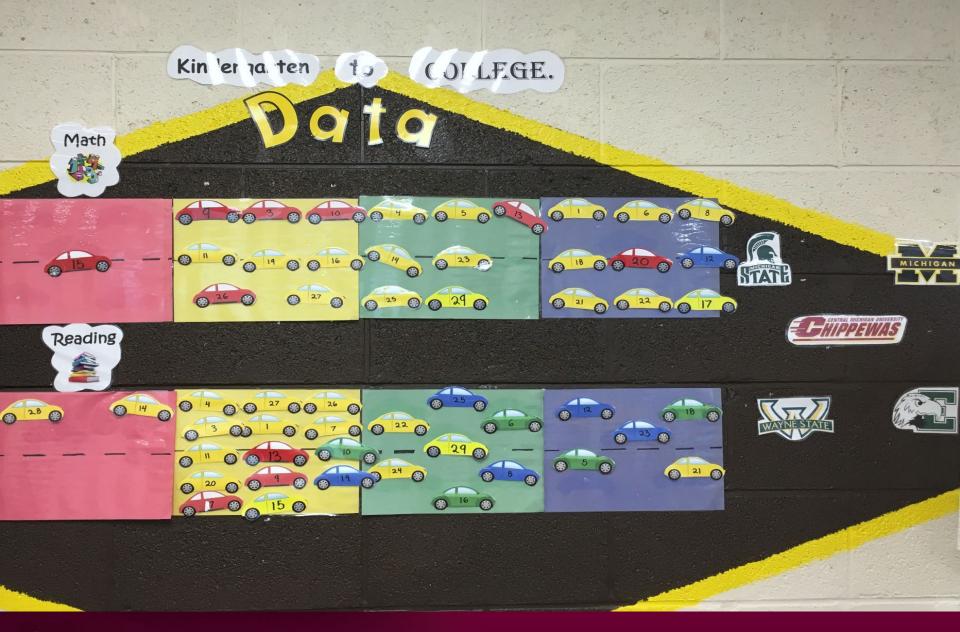
- Really know your data (Data Driven Schools).
- Build relationships with your students (Culturally Responsive Learning and Teaching).
- Extensive use of state and local standards to design curriculum and instruction, assess student work and evaluate teachers (High Expectations).
- Substantial investment in professional development (Developing your teachers, principal and leadership team).













Instructional Learning Cycle

IMPLEMENTING EFFECTIVE INSTRUCTION

GAME CHANGER



WHAT STANDARDS DO I COVER?

5th Grade's Math Pacing NBT.B.5-Fluently multiply multi-digit whole numbers using Week of November 6 the standard algorithm product A multiply 3x2 A multiply 3x3 multiple NBT.B.7- Multiply decimals using concrete models or drawings and November 13 strategies based on place value Amultiplies decimals by one-digit whole numbers A multiplies decimals by multi-digit whole numbers NBT.B.5+NBT.B.7 Review multiplying whole numbers and November 20 (Thanksqiving)) decimals NBT.B.6-Find whole number a votients of whole numbers up to four-digit dividends and two November 27 quotient divisor digit divisors dividend Done digit divisor with no remainders □ one digit divisor with up to 4 A one digit divisor with remainders December 4 NBT.B.6" △ two digit divisor with no remainders A two digit divisor with remainders December | MDC3A-Recognize volume as △ Finding volume of flaures by Cubicom Counting cubes Cm3 Afinding volume of a regular Solid figure

A Finding volume of an imagular Solid figure formula LXWXH December 18 MDA.1-Convert among different sized units

3rd Grade Nov 5th-16th RL.3.1, RL3.2, RL33 Sequencing, infer (context clues), Literary Elements (character, setting, plot theme) Making predictions Cause + Effect, Main idea + details Nov 26th-30th RL 3.4, L.35a Figurative Language Dec 3rd-7th RL. 3.6 Point of View Dec 10th - 14th RL 35 Poetry Dec 17th-21st - Jan 7th-12th RI.3.1,3.2 Main Ideas + Details, Context class feeting Jan 14th-18th RI 3.6+3.5 Authors Purpose Jan 21st - Feb 1st - L. 3.4a, 3.4b Context Clues Synonymns / Antonyms Prefix | Suffix

Week of	Domain/ Focus Standard Math	Domain/Focus Standard ELA
	Measurement and Data (2.MD)	Reading Standards for Literature (RL.2)
	CCSS.Math.Content.1.MD.C.4: Organize,	CCSS.ELA-Literacy.RL.1.5: Explain major
	represent, and interpret data with up to	differences between books that tell stories
	three categories; ask and answer questions	and books that give information, drawing
	about the total number of data points, how	on a wide reading of a range of text types.
	many in each category, and how many	Classifies literary text as a folktale
	more or less are in one category than in	Classifies literary text as a story
	another.	Classifies literary text as poetry Distinguishes between fiction and
November 20th and	Compares values in a picture graph	nonfiction read aloud
1,0,10111011 20 11111	Compares values in a table or chart	Understands characteristics of fiction
Week of November 27 th	Distinguishes the title of a graph Locates information in a bar graph	Understands characteristics of
	with single-unit scale	nonfiction
	Represents data in a picture graph	
	Represents data in a table or chart	
	Represents data in bar graphs with	
	single-unit scales	
	Represents data in pictographs with	
	single-unit scales	
	Solves problems using data in a	
	pictograph with single-unit scales Solves problems using data in a	
	picture graph	
	Solves problems using data in a	
	table	
	Titles a graph appropriately	
	3 ,	
	Review: Draw a picture graph and a bar graph (with	Review: Ask and answer questions about key details
	single-unit scale) to represent a data set with up to	in a text read aloud or information presented orally
	four categories. Solve simple put-together, take-	or through other media.
	apart, and compare problems using information	
	presented in a bar graph.	
37 1 1	11.14.1.4	6. (1.61) (1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.
Vocabulary	digit, data, centimeter	fairy tale, folktale, comprehension

Week of	Domain/ Focus Standard Math	Domain/Focus Standard ELA
December 4 th and Week of December 11 th	Numbers/Operations in Base Ten (2.NBT) CCSS.Math.Content.2.NBT.B.7: Add and subtract within 1000, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method. Understand that in adding or subtracting three-digit numbers, one adds or subtracts hundreds and hundreds, tens and tens, ones and ones; and sometimes it is necessary to compose or decompose tens or hundreds. Subtracts whole numbers within 100 using	Reading Standards Informational text (RI.2) CCSS.ELA-Literacy.RI.1.2: Identify the main topic and retell key details of a text. Understands the main idea of informational paragraphs read aloud Understands the topic of informational paragraphs read aloud

	base-ten blocks, no regrouping	
	Review: Place value – 3 digitsstretch to 4 digit – students can count amounts using 1s, 10s, 100s or small cubes, ten rods, hundred flats	Review: Explain major differences between books that tell stories and books that give information, drawing on a wide reading of a range of text types.
Vocabulary	expanded notation, operations, fact family	main idea, retell, purpose



Week of	Domain/ Focus Standard Math	Domain/Focus Standard ELA
December 18 th and Week of January 8 th	Measurement and Data (2.MD) CCSS.Math.Content.2.MD.C: Work with time and money. Determines the value of a collection of bills Determines the value of a collection of coins and bills Determines the whole number value of a collection of coins given as pictures Identifies equivalent sets of coins	Reading Standards Informational text (RI.2) CCSS.ELA-Literacy.RI.K.7: With prompting and support, describe the relationship between illustrations and the text in which they appear (e.g., what person, place, thing, or idea in the text an illustration depicts). Infers the meaning of an advertisement from text and pictures
	Review: add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction.	Review: Ask and answer questions about key details in a text. Determines specific purpose of an advertisement. Locates details in informational text
Vocabulary	clockwise, estimation,	main character, question, reread
	customary unit	
Week of	Domain/ Focus Standard Math	Domain/Focus Standard ELA
January 15 th and Week of January 22 nd	Measurement and Data (2.MD) CCSS.Math.Content.2.MD.C.8: Solve word problems involving dollar bills, quarters, dimes, nickels, and pennies, using \$ and ¢ symbols appropriately. Solves one-step addition word problems involving whole dollars Review: add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction.	Reading Standards Informational text (RI.2) CCSS.ELA-Literacy.RI.1.7: Use the illustrations and details in a text to describe its key ideas. Infers the meaning of an advertisement from text and pictures Review: Know and use various text features (e.g., headings, tables of contents, glossaries, electronic menus, icons) to locate key facts or information in a text. Locates information in a newspaper Locates information in tables of contents
Vocabulary	estimation, numeral, place value	map, table of contents, character



How do you progress monitor what is being taught?





Week of:	Standard(s) / Performance Indicator(s)	Focus Skills
November 05, 2018	2.G.A.3	Partition circles and rectangles into
		two, three, or four equal shares,
		describe the shares using the words
		halves, thirds, half of, a third of,
		etc., and describe the whole as two
		halves, three thirds, four fourths

Weekly Common Assessment Tracker

Teacher: Ms. Tumpkin

Week Ending: Friday, November 09, 2018

Focus Standard(s) / Performance Indicator(s): Strategies to partition and recognize shapes divided into halves, thirds and fourths.

Question	Indicator (image of a partitioned fractions)	Percent
		Correct
1 Circle everything divided into halves.	Bryce, <u>Jimaya</u> , Jordyn	16/19=84%
2 Circle all of the shapes divided into thirds.	Amauri, Jaden, <u>Jimaya</u> , Keon, Jordyn	
		14/19= 73%
3 Circle everything divided into fourths.	Bryce, Erin, Jordyn	16/19=84%
5 Look at the pizza below. Explain why it's divided into fourths.	Anaya, <u>Shaviny</u> , <u>Jameer</u> , <u>Kamora</u> , <u>Jazmine</u> , <u>Le'neya</u> . Erin, Keon, Jordyn	10/19= 52%
6 Look at the shape. Explain why it is divided into halves.	Jazmine, <u>Le'neya</u> , Keon, Jordyn	14/19= 73%

Support provided for students who did not achieve 80% mastery:

In small groups - provide opportunities for students to compare fraction parts using halves, thirds, and

fourths. Have students sort and evaluate equal and not equal fractions.

Notes: 19 students took this week's assessment:

and were absent. Students had difficulty explaining why the pizza image was divided into

fourths.

Data Wall Teacher: Ms. Tumpkin

Period Ending: Friday, November 09, 2018

Focus Standard(s) / Performance Indicator(s): <u>Partition circles and rectangles into two, three, or four equal shares</u>, describe the shares using the words halves, thirds, half of, a third of, etc., and describe the <u>whole as two halves</u>, three thirds, four fourths.

Skills Taught: Strategies to partition and recognize shapes divided into halves, thirds and fourths.

Advanced 95 – 100%	Proficient 80% - 94%	Partially Proficient 70–79%	Not Proficient - Below 70%
Number: 6	Number: 11	Number:	Number: 2
Darrian, Makyiah,	Anaya, Shaviny,		<mark>54%</mark> Keon
Jeremiah, Macaylee,	Amauri, Jaden,		<mark>36%</mark> Jordyn
Zaharia, Antonio	Jameer, Kamora,		
	Bryce, Jimaya, Erin		
	Jazmine, Le'neya		





