

Measures of Academic Academic Progress Progress Northwest Evaluation Association Partnering to belp all kids learn

Shaker Heights City Schools October 15, 2014 Dr. Lynne Kulich

# What is Common Core MAP/MPG? Not is Common Core MAP/MPG?

- Measures of Academic Progress
- MAP for Primary Grades
- Developed by Northwest Evaluation Association (NWEA)
- Tests in reading, language, and math
- Aligned to CCSS/PARCC
- Provides for continuous measures for our students in grades K-6

# What is Common Core MAP/MPGrissecution

- Computer-Adaptive (personalized)
- Multiple opportunities
- Reported to parents
- Lexiles included
- Used internationally

## What information can you obtain from MAP and MPG?

- Projected Proficiency (OAA, PARCC, OGT, ACT)
- National Center on RTI Approved Universal Screening Tool
- ODE Approved G/T Screening/Identification
- ODE Approved Teacher/Principal Evaluation Tool
- ODE Approved 3<sup>rd</sup> Grade Guarantee
- Program placement guidelines
- Differentiated Instruction-group placement
- Diagnostic instructional level data
- Student growth data
- Normative data
- Growth trajectories
- Intake data on enrollment
- Grade, school and district-wide data
- Reading Lexile level

### MAP as assessments FOR learning



- Customized to individual students
- Compare students to self and others
- Untimed
- Inform instruction
- Provide information before, during and after instruction
- Focus on growth
- Like a medical "check-up"



## What are Assessments FOR Learning?

- Informs the learner
- Results in learning goals and next steps (a plan)
- Invites student participation and reflection
- Descriptive not evaluative
- Embedded in instruction
- Addresses the skills that underpin the standards
- Communicates a growth mind-set



### Reading

MPG (K-1) Measures:

- Phonological Awareness
- Phonics
- Print Concepts
- Vocabulary and Word Structure
- Comprehension
- Writing
- Lexile Levels



### Reading

MAP for Grades (2-6) Measures:

- Word Analysis and Vocabulary
- Literal Comprehension
- Interpretive Comprehension
- Literary Response and Analysis
- Lexile Levels



#### Language Usage

MPG (K-1) Measures:

- Language Usage is combined within the reading assessment
- MAP for Grades (2-6) measures:
- Writing Strategies
- Writing Application and Style
- Mechanics
- Grammar



#### Math

MPG (K-1) Measures:

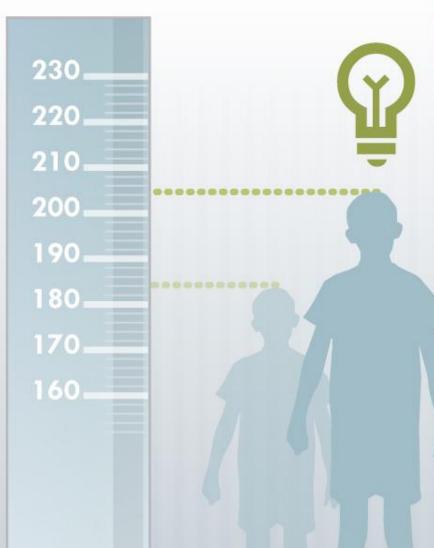
- Problem Solving
- Number Sense
- Computation
- Measurement and Geometry
- Statistics and Probability
- Algebra



#### Math

MAP for Grades (2-6) Measures:

- Number Sense and Operations
- Patterns, Functions, and Algebra
- Measurement
- Geometry and Spatial Sense
- Data Analysis, Statistics, and Probability
- Problem Solving

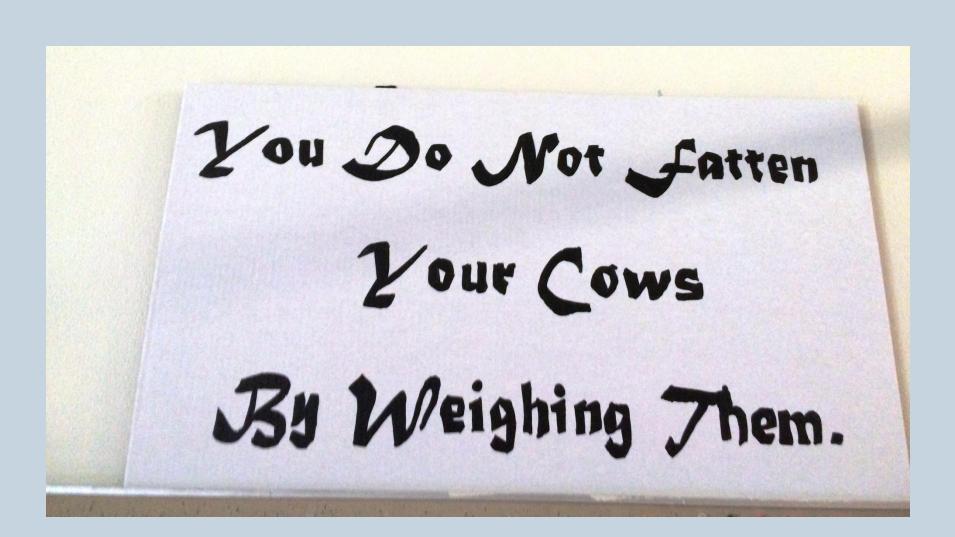


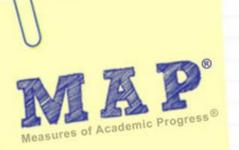
#### **RIT Growth as a Yardstick**

- Equal interval scale
- Linked to curriculum
- Achievement scale
- Measures item difficulty
- Cross graded measurement
- Shows growth over time



## It's what we do that counts!





#### Sign In

2.

Please sign in. If you need help at any time, raise your hand.

#### Enter your name

Start typing your last name, then select from the matching list. For example, "Smith, Sandra K".

Andrews, Julie

#### Enter your test

Your test has been selected for you. MAP: Math 6+ IL 2006

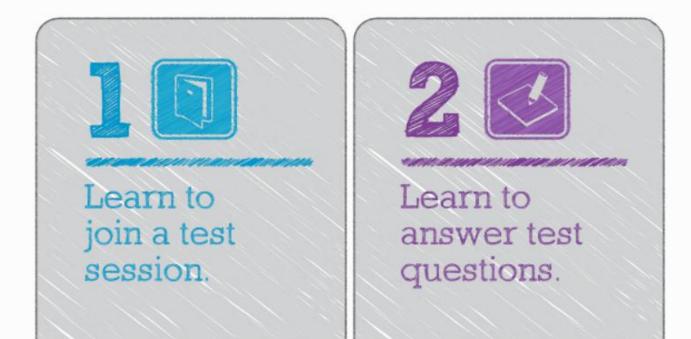




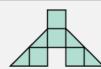


NWEA ...

MAP Warm-Up

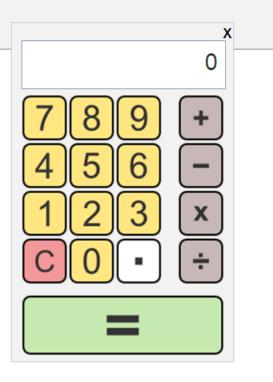


#### What is the area?



- A. 3 square units
- B. 8 square units
- O C. 4 square units
- D. 9 square units
- E. 6 square units

Donna Clark, ID# \*\*\*\*\*09





#### Read the passage.

The man in the corner pushed aside his glass, and leant across the table.

"Mysteries!" he commented. "There is no such thing as a mystery in connection with any crime, provided intelligence is brought to bear upon its investigation."

Very much astonished Polly Burton looked over the top of her newspaper, and fixed a pair of very severe, coldly inquiring brown eyes upon him.

She looked at him and frowned; the next moment she smiled. Miss Burton (of the <u>Evening Observer</u>) had a keen sense of humour, which two years' association with the British Press had not succeeded in destroying, and the appearance of the man was sufficient to tickle the most ultra-morose fancy. Polly thought to herself that she had never seen any one so pale, so thin, with such funny light-coloured hair, brushed very smoothly across the top of a very obviously bald crown. He looked so timid and nervous as he fidgeted incessantly with a piece of string; his long, lean, and trembling fingers tying and untying it into knots of wonderful and complicated proportions.

Having carefully studied every detail of the quaint personality Polly felt more amiable.

"And yet," she remarked kindly but authoritatively, "this article, in an otherwise well-informed journal, will tell you that, even within the last year, no fewer than six crimes have completely baffled the police, and the perpetrators of them are still at large."

"Pardon me," he said gently, "I never for a moment ventured to suggest that there were no mysteries to the *police*; I merely remarked that there were none where intelligence was brought to bear upon the investigation of crime."

#### Which word most nearly means the same as "amiable" as it is used in this passage?

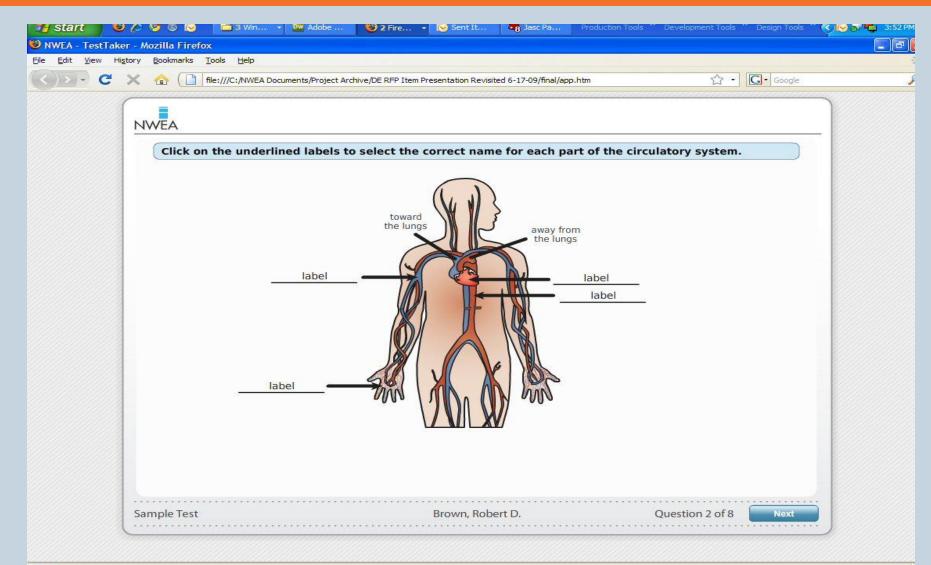
- 1. confused
- 2. friendly
- 3. annoyed
- 4. joyous



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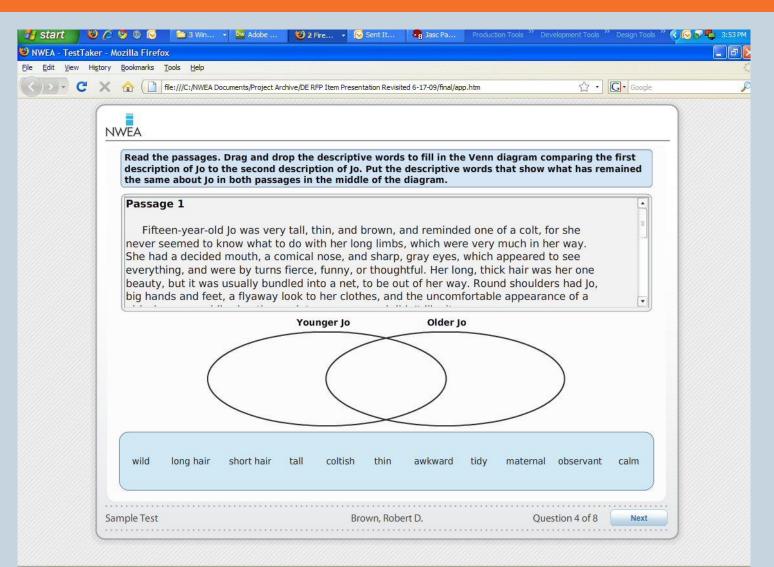


## **Item With Dropdown Lists**



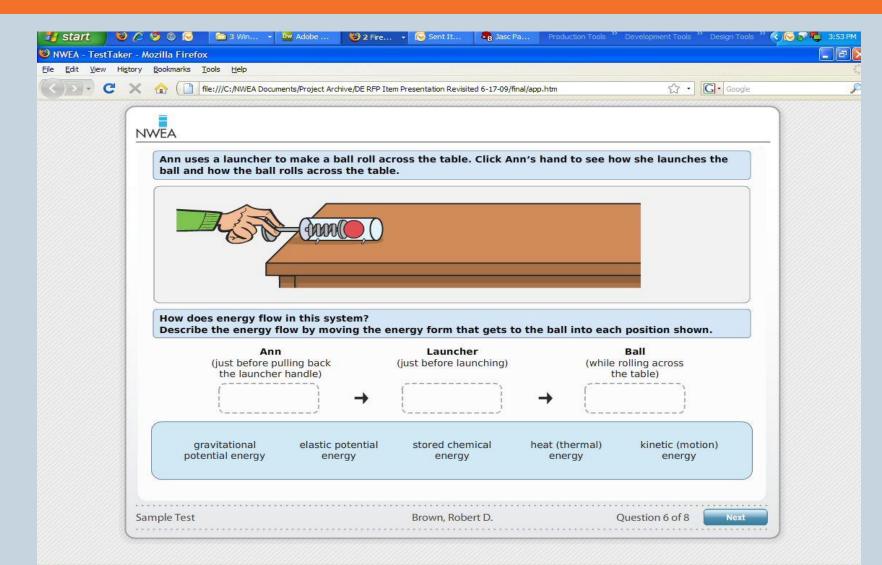


### **Drag and Drop Items**





### **Item With Animation**





## **Polytomous Item**

#### How did the invention of the telephone most affect the way people lived in the 1800s?

- A. Many people moved to the cities.
- B. Women got new jobs as operators.
- C. Communication became faster and easier.
- D. Travel by train was not necessary anymore.



## **Scoring Explanation**

Scoring Explanation for item 50	Justifications	
Full credit	C. Communication became faster and easier	This is the correct answer. This demonstrates full understanding of the impact of the telephone in the 1800s.
Partial credit	B. Women got new jobs as operators	This is a partially correct answer. This demonstrates a partial understanding of the impact of the telephone in the 1800s. While women did have added employment opportunities, the impact of the telephone on communication is universal and ubiquitous.
No credit	Options A and D	



## **Student Notification**

Martin Newberry Congratulations, you finished the test.			
Measurem Rea	ding		
Overall S	core: 191		
Lexile <sup>®</sup> Rang	ge: 339 - 489		
Goal Name:	Word Recognition, Analysis, Vocabulary Expansion		
Goal Score:	194		
Goal Range:	187 - 201		
Goal Name:	Comprehension: Informational		
Goal Score:	193		
Goal Range:	186 - 200		
Goal Name:	Comprehension: Narrative		
Goal Score:	199		
Goal Range:	192 - 207		
Goal Name:	Literature		
Goal Score:	181		
Goal Range:	174 - 188		

The total test time was: 00:11:59

Date: 06-07-2011 Test Name: MAP: Reading 6+ MN 2003

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Print Report

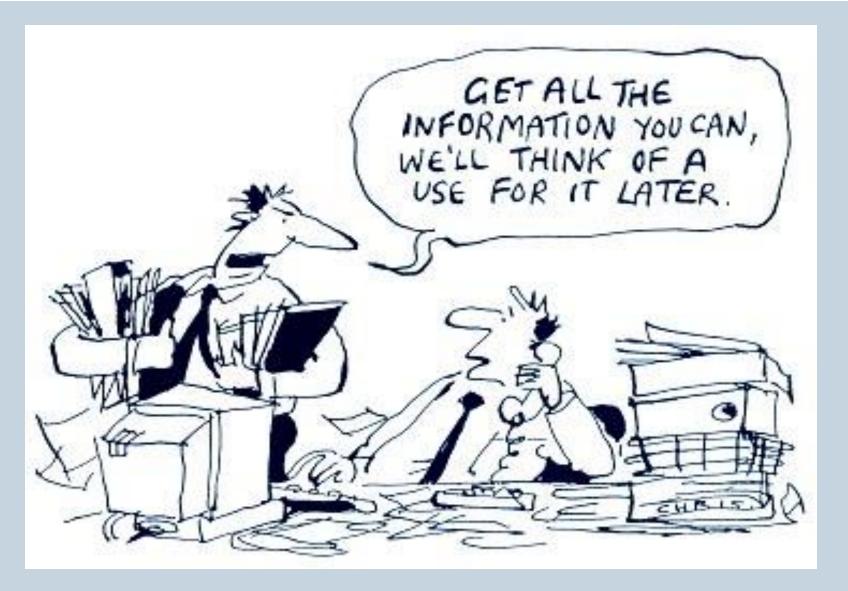


Martin Newberry, ID# \*\*\*\*\*02

MAP: Reading 6+ MN 2003



## Data defines our work!



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Subject	Overall Score					
Subject	171-180	181-190	191-200	201-210	211-220	221-230
<u>Mathematics</u>	E.O. Bargdill-Robbins (178)		D.U. Ledocq (195) M.A. Revey (198) S.N. Burrup (200) E.B. Reinhard (200)	G.A. Olds (201) R.N. Rosenquist (203) A.E. Varco (205) L.E. Bothwell (207) J.S. Van Klavern (209) B.T. Villaire (209) M.R. Reilly (210)	C.R. Siesco (214) A.N. Harjes (219) C.R. Massie (219) H.L. Mokay (219) K.T. Hussey (220) G.S. Schaefer (220)	G.A. Bartusiak (222) X.A. Wersal (223)
<u>Reading</u>		G.A. Olds (184) S.N. Burrup (189) E.B. Reinhard (189)	M.A. Revey (192) D.U. Ledocq (198) K.T. Hussey (200)	G.S. Schaefer (201) E.O. Bargdill-Robbins (203) L.E. Bothwell (205) R.N. Rosenquist (205) A.E. Varco (205) C.R. Massie (207) H.L. Mokay (208) C.R. Siesco (209) J.S. Van Klavern (209)	B.T. Villaire (211) A.N. Harjes (215) G.A. Bartusiak (220)	X.A. Wersal (221) M.R. Reilly (224)
<u>Lanquaqe Usaqe</u>		G.A. Olds (189)	R.N. Rosenquist (196) A.E. Varco (198) M.A. Revey (199) D.U. Ledocq (200)	E.O. Bargdill-Robbins (202) S.N. Burrup (203) E.B. Reinhard (203) L.E. Bothwell (208) C.R. Massie (208) A.N. Harjes (210)	B.T. Villaire (211) G.S. Schaefer (212) C.R. Siesco (213) K.T. Hussey (216) H.L. Mokay (216) M.R. Reilly (216) J.S. Van Klavern (218)	X.A. Wersal (223) G.A. Bartusiak (227)
<u>Science - General</u> <u>Science</u>		D.U. Ledooq (184) G.A. Olds (185) M.A. Revey (188) R.N. Rosenquist (188)	E.O. Bargdill-Robbins (193) S.N. Burrup (195) A.E. Varco (195) L.E. Bothwell (197) G.S. Schaefer (197) E.B. Reinhard (199)	G.A. Bartusiak (201) A.N. Harjes (201) H.L. Mokay (202) C.R. Massie (203) J.S. Van Klavern (203) B.T. Villaire (204) C.R. Siesco (207) M.R. Reilly (210)	X.A. Wersal (212)	
<u>Science -</u> <u>Concepts and</u> <u>Processes</u>		D.U. Ledocq (185) L.E. Bothwell (189) M.A. Revey (190)	S.N. Burrup (192) G.A. Olds (193) E.B. Reinhard (193) C.R. Siesco (194) E.O. Bargdill-Robbins (195) R.N. Rosenquist (196) J.S. Van Klavern (197) A.E. Varco (197)	G.S. Schaefer (201) B.T. Villaire (202) C.R. Massie (205) X.A. Wersal (206) H.L. Mokay (208) M.R. Reilly (210)	G.A. Bartusiak (212) A.N. Harjes (214)	2

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Class Breakdown by	Goal	•	Create a PDF version of this report Legal 8 1/2x14"	
Subject	Mathematics	-		

#### Math Survey w/ Goals 6+ CO V2.1

Goal	Goal Score							
Guai	161-170	171-180	181-190	191-200	201-210	211-220	221-230	231-240
<u>Number Sense</u>	E.O. Bargdill (178)			≤all students in the cell> M.A. Revey (198) E.B. Reinhard (200) R.N. Rosenguis (203) L.E. Bothwell (207) B.T. Villaire (209)	D.U. Ledocq (195) S.N. Burrup (200)	≤all students in the cell> A.N. Harjes (219) C.R. Massie (219) G.S. Schaefer (220) G.A. Bartusiak (222) X.A. Wersal (223)	<u>≤all students in the cell&gt;</u> C.R. Siesco (214) H.L. Mokay (219)	<all cell="" in="" students="" the=""> J.S. Van Klave (209) K.T. Hussey (220)</all>
Algebraic Methods, Patterns, and Functions			<all cell≥<br="" in="" students="" the="">E.O. Bargdill (178) S.N. Burrup (200)</all>	D.U. Ledocq (195)	<all cell="" in="" students="" the=""> M.A. Revey (198) E.B. Reinhard (200) R.N. Rosenguis (203) A.E. Varco (205) L.E. Bothwell (207) H.L. Mokay (219)</all>	<all cell="" in="" students="" the=""> G.A. Olds (201) J.S. Van Klave (209) B.T. Villaire (209) M.R. Reilly (210) C.R. Massie (219)</all>	<all cell≥<br="" in="" students="" the="">C.R. Siesco (214) A.N. Harjes (219) K.T. Hussey (220) G.S. Schaefer (220) G.A. Bartusiak (222)</all>	<u>X.A. Wersal (223)</u>
Data Analysis and Probability	<u>E.O. Bargdill (178)</u>		<all cell="" in="" students="" the=""> R.N. Rosenguis (203) J.S. Van Klave (209)</all>	<all cell="" in="" students="" the=""> D.U. Ledoog (195) M.A. Revey (198) E.B. Reinhard (200) G.A. Olds (201)</all>	<all cell="" in="" students="" the=""> B.T. Villaire (209) M.R. Reilly (210) C.R. Siesco (214) H.L. Mokay (219)</all>	<all cell="" in="" students="" the=""> S.N. Burrup (200) A.E. Varco (205) L.E. Bothwell (207) A.N. Harjes (219) C.R. Massie (219) K.T. Hussey (220) G.A. Bartusiak (222)</all>	<all cell≻<br="" in="" students="" the="">G.S. Schaefer (220) X.A. Wersal (223)</all>	
Geometric Concepts, Properties, and Relationships			<u>E.O. Bargdill (178)</u>	<all cell="" in="" students="" the=""> D.U. Ledocg (195) M.A. Revey (198) S.N. Burrup (200) A.E. Varco (205)</all>	<u>G.A. Olds (201)</u>	≤all students in the cell> E.B. Reinhard (200) R.N. Rosenquis (203) L.E. Bothwell (207) J.S. Van Klave (209) M.R. Reilly (210) C.R. Siesco (214) C.R. Massie (219) H.L. Mokay (219) K.T. Hussey (220) G.A. Bartusiak (222) X.A. Wersal (223)	<u>≤all students in the cell&gt;</u> B.T. Villaire (209) A.N. Harjes (219) G.S. Schaefer (220)	
<u>Measurement</u>			<all cell≥<br="" in="" students="" the="">E.O. Bargdil (178) D.U. Ledoog (195) G.A. Olds (201) B.T. Villaire (209)</all>	<all cell="" in="" students="" the=""> E.B. Reinhard (200) C.R. Siesco (214)</all>	<all cell="" in="" students="" the=""> M.A. Revey (198) S.N. Burrup (200) R.N. Rosenguis (203) L.E. Bothwell (207) J.S. Van Klave (209) G.S. Schaefer (220)</all>	A.E. Varco (205) M.R. Reilly (210)	≤all students in the cell≻ C.R. Massie (219) G.A. Bartusiak (222) X.A. Wersal (223)	<u>H.L. Mokay (219)</u>
<u>Computation</u> <u>Concepts and</u> <u>Procedures</u>		<u>E.O. Bargdill (178)</u>	<u><all cell="" in="" students="" the=""></all></u> M.A. Revey (198) <u>S.N. Burup (200)</u> J.S. Van Klave (209)	<all cell="" in="" students="" the=""> D.U. Ledocg (195) E.B. Reinhard (200) G.A. Olds (201) M.R. Reilly (210)</all>	<all cell="" in="" students="" the=""> R.N. Rosenguis (203) A.E. Varco (205) L.E. Bothwell (207)</all>		<u>≤all students in the cell&gt;</u> A.N. Harjes (219) C.R. Massie (219) G.S. Schaefer (220) X.A. Wersal (223)	

#### Daniel's DesCartes Results

Subject: Mathematics Goal Strand: Measurement RIT Score Range: 221-230

Secured Skills RIT Range: 211-220	Emerging Skills RIT Range: 221-230	Future Skills RIT Range: 231-240	
Length, Weight, Volume	Length, Weight, Volume	Length, Weight, Volume	
<ul> <li>Measure length to the nearest millimeter, centimeter, meter, and kilometer</li> </ul>	<ul> <li>Measure length with metric measures (centimeter)</li> <li>Measure length with customary measures (inch)</li> <li>Select the appropriate unit of measure for length, area, and volume</li> </ul>	Find the volume of a pyramid	
Area, Perimeter, Circumference	Area, Perimeter, Circumference	Area, Perimeter, Circumference	
<ul> <li>Calculate the area of irregular shapes</li> <li>Understand the effects of changing dimensions on perimeter and area</li> </ul>	<ul> <li>Analyze circles: center, chord, diameter, radius, arc, semicircle, and circumference</li> <li>Find the missing angle measurement in a triangle when two angles are known</li> </ul>	<ul> <li>Find the perimeter of a square or rectangle using the formula</li> <li>Find the perimeter of polygons</li> <li>Calculate the area of a parallelogram and rectangle</li> <li>Calculate the area of a triangle</li> <li>Calculate the circumference of a circle using the formula</li> </ul>	
Time, Temperature	Time, Temperature	Time, Temperature	
		<ul> <li>Convert from Celsius to Fahrenheit</li> <li>Subtract Fahrenheit temperatures</li> </ul>	
Angle Identification and Measure	Angle Identification and Measure	Angle Identification and Measure	
<ul> <li>Measure angles using a protractor</li> </ul>			
Money	Money	Money	
<ul> <li>Compute basic operations with monetary amounts up to and including \$20.00</li> </ul>		<ul><li>Find commission and total pay</li><li>Compute and count change greater than \$20.00</li></ul>	
New Vocabulary in this Range: yards, measure of angle, degrees, protractor, centuries, below zero, Celsius, rectangular solid, rectangular prism, decades, ounces	New Vocabulary in this Range: reasonable, formula, segment BC, pi, radius squared, diameter, metric units, quarts, gallons, rectangular box, base, rate	New Vocabulary in this Range: rectangular house, height and base, algebraic expression, rows and columns, checking account, car purchase, commission, simple interest	
New Signs and Symbols: " = inches, yd = yards, b = base, h = height, r = radius, s = side, angle symbol, - for negative, + for positive, d = distance, tsp = teaspoon, pt = pint, gal = gallon, qt = quart, c = cup	New Signs and Symbols: oz = ounces, C = circumference	New Signs and Symbols: F = 9/5 C + 32, formula for finding volume of a pyramid	

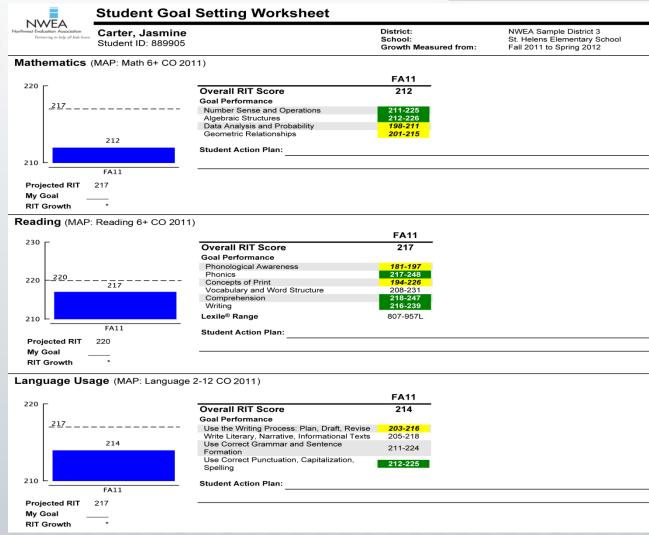
#### Grace's DesCartes Results

Subject: Mathematics Goal Strand: Measurement RIT Score Range: 241-250

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Secured Skills RIT Range: 231-240	Emerging Skills RIT Range: 241-250	Future Skills RIT Range: 251-260	
Length, Weight, Volume	Length, Weight, Volume	Length, Weight, Volume	
Find the volume of a pyramid		<ul> <li>Find volume of cones and rectangular prisms and cylinders</li> </ul>	
Area, Perimeter, Circumference	Area, Perimeter, Circumference	Area, Perimeter, Circumference	
<ul> <li>Find the perimeter of a square or rectangle using the formula</li> <li>Find the perimeter of polygons</li> <li>Calculate the area of a parallelogram and rectangle</li> <li>Calculate the area of a triangle</li> <li>Calculate the circumference of a circle using the formula</li> </ul>	<ul> <li>Calculate the area of a parallelogram and rectangle using algebra tiles</li> <li>Understand the effects of changing dimensions on perimeter, area, and volume</li> <li>Calculate the surface area of a rectangular prism and cylinder</li> </ul>	<ul> <li>Find area of inscribed figure by using midpoints and endpoints</li> </ul>	
Time, Temperature	Time, Temperature	Time, Temperature	
<ul> <li>Convert from Celsius to Fahrenheit</li> <li>Subtract Fahrenheit temperatures</li> </ul>			
Angle Identification and Measure	Angle Identification and Measure	Angle Identification and Measure	
		<ul> <li>Relationship of size of angles and corresponding sides of a triangle</li> </ul>	
Money	Money	Money	
<ul> <li>Find commission and total pay</li> <li>Compute and count change greater than \$20.00</li> <li>New Vocabulary in this Range: rectangular house, height and base, algebraic expression, rows and columns, checking account, car purchase, commission, simple interest</li> </ul>	New Vocabulary in this Range: doubled and tripled, rectangular solid, cylindrical tank, algebra tiles, inscribed, time-and-a-half, sales tax, discount	New Vocabulary in this Range: circumscribed, distance formula	
New Signs and Symbols: F = 9/5 C + 32, formula for finding volume of a pyramid	New Signs and Symbols: none	New Signs and Symbols: formula for finding volume of a cone, formula for volume of a cube, formula for finding volume of a rectangular solid	

### **Setting Goals**



### **Student Growth**



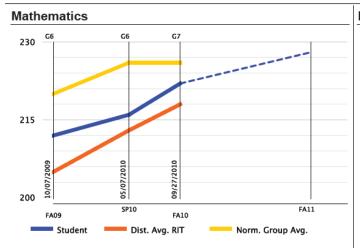
#### **Student Progress Report**

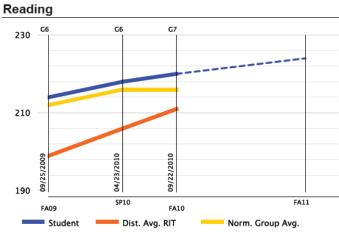
Bartusiak, Giovanna A. Student ID: S11001980 
 Term:
 Fall 2010-2011

 District:
 NWEA Sample District 3

 School:
 St. Helens Elementary School

 Growth Measured from
 Fall to Spring





Mathematics Goals Performance - Fall 2010-2011	
Number Sense	LoAvg
Algebraic Methods, Patterns, and Functions	Avg
Data Analysis and Probability	LoAvg
Geometric Concepts, Properties, and Relationships	LoAvg
Measurement	Avg
Computation Concepts and Procedures	LoAvg

#### Reading Goals Performance - Fall 2010-2011

5	
Students Read and Understand Variety of Material	Avg
Students Apply Thinking Skills to Their Reading	HiAvg
Students Locate, Select, and Use Information	HiAvg
Students Read and Recognize Literature	HiAvg
Lexile® Range: 861-1011	

### Teacher Reports for Reading, Language, and Math



- MAP/MPG Teacher Report
- MPG Teacher Sub-Skill Report
- Class Breakdown by RIT Report
- Class Breakdown by Goal Report
- The Class Overview Report
- Student Projected Performance & Student Goal Setting Worksheet
- Achievement Status and Growth Summary Class



## **NWEA Resources**

#### **MAP/MPG Site:**

https://www.nwea.org/

**Resources for Parents:** 

<u>https://www.nwea.org/assessments/resources-for-parents/</u>

**Knowledge Academy eLearning:** 

 <u>https://www.nwea.org/professional-</u> <u>development/knowledge-academy/</u>

Lexile Levels:

<u>http://legacysupport.nwea.org/sites/www.nwea.org/files/r</u>
 <u>esources/FAQ\_Lexile.pdf</u>



## **NWEA Resources**

#### Sample Test Items by RIT Range (Reading):

 <u>http://www.powayusd.com/projects/edtechcentral/</u> <u>MAPS/PDFs/RITCharts/Reading\_single.pdf</u>

#### Sample Test Items by RIT Range (Language Arts):

- <u>http://www.powayusd.com/projects/edtechcentral/</u> <u>MAPS/PDFs/RITCharts/Language\_single.pdf</u>
- Sample Test Items by RIT Range (Math):
- <u>http://www.powayusd.com/projects/edtechcentral/</u> <u>MAPS/PDFs/RITCharts/Math\_Single.pdf</u>



## Questions?

