AIMSweb Instructional Reports Linked with enVisionMATH Common Core, focusMATH Intensive Intervention, and Prentice Hall Mathematics

Using AIMSweb and enVisionMATH Common Core, focusMATH Intensive Intervention, and Prentice Hall Mathematics Together for Improved Instructional Outcomes

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AIMSweb Instructional Reports Linked with enVisionMATH Common Core + focusMATH Intensive Intervention and Prentice Hall Mathematics

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What is enVisionMath Common Core?

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AIMSweb

What is AIMSweb ?

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AIMSweb

What is AIMSweb?

AIMSweb is a **universal screening** and **progress monitoring** system for **academics** and **behavior** based on:

Brief, direct, *and* ***continuous*** student assessment

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AIMSweb

Why use AIMSweb?

AIMSweb Data empowers educators to quickly and accurately:

- Identify **baseline performance and yearly growth**
- Evaluate ***efficacy of core and tiered instruction***
- Identify ***groups*** & ***individual students*** who may be at-risk, average, or "gifted," for whom instruction is—or is not—effective
- Receive immediate feedback needed to ***make data-based decisions regarding instruction & programming***
- Do what they do—only better—and ***more efficiently***

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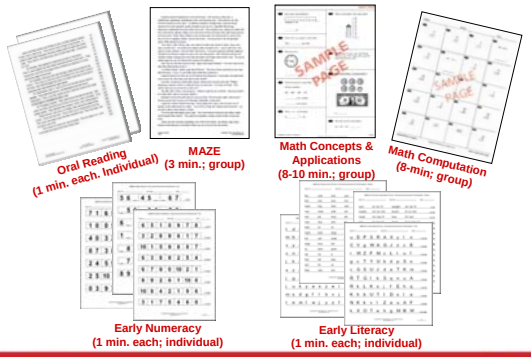
What Does AIMSweb Assess?



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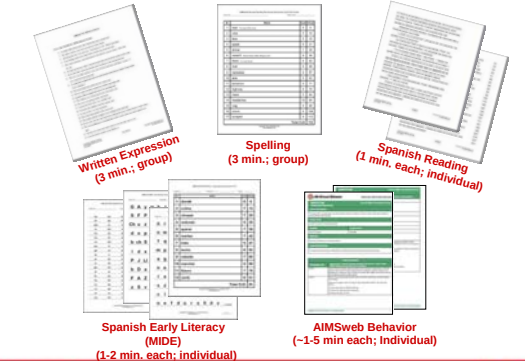
What Does AIMSweb Assess?



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Measures for which Curriculum References are Available in AIMSweb

AIMSweb Assessment		Grade	Pearson Curriculum
Reading	Early Literacy (TEL)	K - 1	Scott Foresman Reading Street & My Sidewalks on Scott Foresman Reading Street
	Reading-CBM (R-CBM) & MAZE	2 - 6	Scott Foresman Reading Street & My Sidewalks on Scott Foresman Reading Street
		6 - 8	Prentice Hall Literature
Math	Math Concepts & Applications (M-CAP)	2 - 6	enVisionMATH Common Core & focusMATH Intensive Intervention
		6 - 8	Prentice Hall Mathematics

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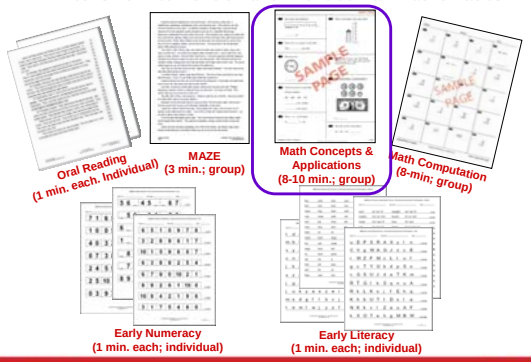
Math Concepts and Applications (M-CAP)
Linked to enVisionMATH Common Core, focusMATH Intensive Intervention and Prentice Hall Mathematics



Oral Reading (1 min. each. Individual)

MAZE (3 min.; group)

Math Concepts & Applications (8-10 min.; group)

Math Computation (8-min; group)

Early Numeracy (1 min. each; individual)

Early Literacy (1 min. each; individual)

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The data help us answer three critical questions:

1. **How are the majority of students who receive Core / General Education instruction progressing?**

   Are program or environmental adjustments at the "**core**" level needed to support those students across groups?
   (E.g., At the class, grade, school, district, or state levels.)

2. **Who are the students at-risk of academic failure? Are they making progress?**

   Are program or environmental adjustments needed to support **at-risk** students individually or across groups?

   How are students receiving tiered services progressing?

3. **How are the "high flyers" doing? Are they progressing?**
   Are program or environmental adjustments needed to support those students individually or across groups?

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How do AIMSweb and enVisionMATH Common Core, focusMATH Intensive Intervention, and Prentice Hall Mathematics work together?

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The
"Now what do I do?"
question

Has an answer!

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Now Available!

AIMSweb linkages to:

enVisionMATH Common Core &
Prentice Hall Middle Grades Mathematics, Common Core Edition

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AIMSweb & Curriculum Links

- AIMSweb offers reports that **link AIMSweb benchmark data** for early literacy, reading, and math to **Pearson Curriculum products**.
- While AIMSweb will continue to be curriculum-independent, these reports are included **(free)** in your subscription.

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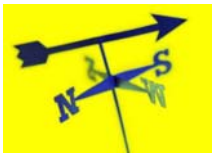
AIMSweb & Curriculum Links Give Teachers Direction

- These reports will:
  - Provide **instructional placement** levels for Pearson Curriculum
  - Provide **references to Pearson instructional resources** for Tier II & III students
  - Make RTI data real and **relevant for teachers**



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AIMSweb in Four Steps

Step 1: Briefly Assess Students

Step 2: Record Scores

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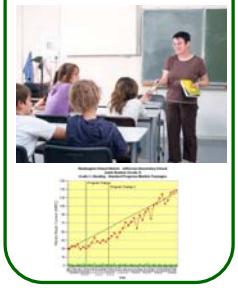
AIMSweb in Four Steps

Step 3: Analyze Instant Reports



Step 4: Use Data Regularly to Inform Instruction

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What are Curriculum Instructional Links Reports for AIMSweb?

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AIMSweb Instructional & Placement Recommendation Reports

- AIMSweb Reports for math and reading now include:
  - **M-CAP Class-at-a-Glance Report:** Curriculum-independent
  - **M-CAP Student Instructional Planning Report** with references to *enVisionMATH, focusMATH*, and *Prentice Hall Mathematics*
  - **Early Literacy / R-CBM / Maze Class Instructional Planning Reports** with references to *Reading Street*, *My Sidewalks*, and *Prentice Hall Literature*

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M-CAP Class-at-a-Glance Report

- Grades **2-8 (M-CAP)**
- This particular report is **curriculum-independent**
- Provides a class wide **overview of math performance**
- Shows summary of performance by **NCTM domain**
- Highlights **strands** that represent a relative strength or relative weakness for particular students
- Teachers can directly link to an *individual student instructional planning report*, which provides detail on **item level performance** and **instructional references**

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How do I find these reports?

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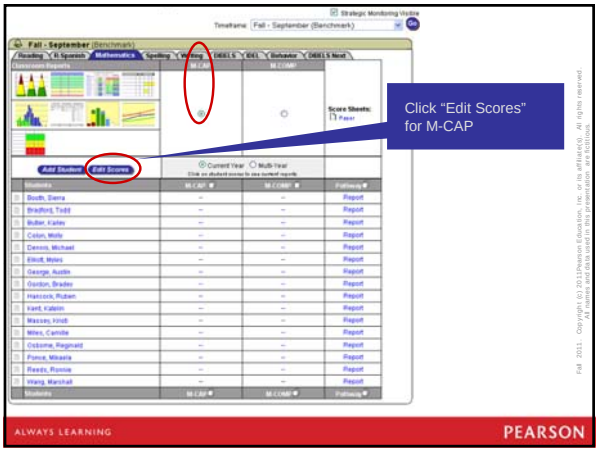

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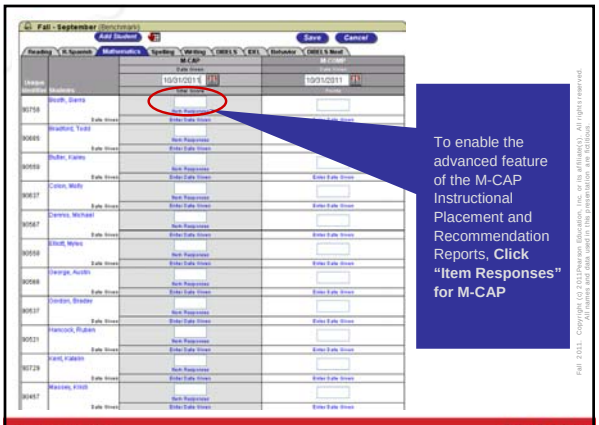

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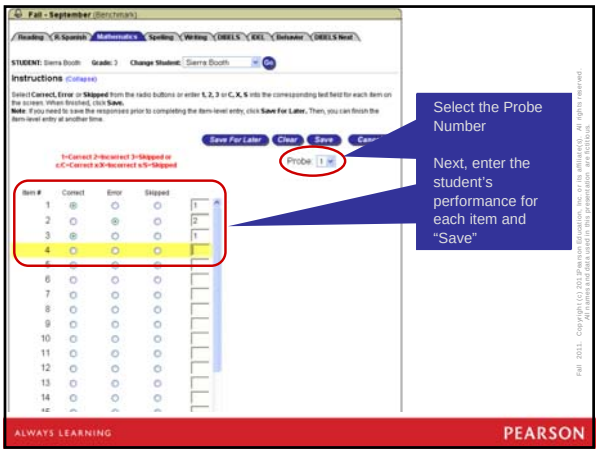
Select the Probe Number
Next, enter the student's performance for each item and "Save"
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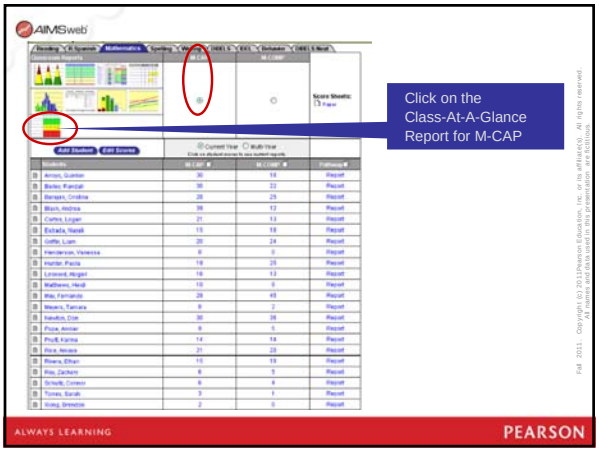
Click on the Class-At-A-Glance Report for M-CAP
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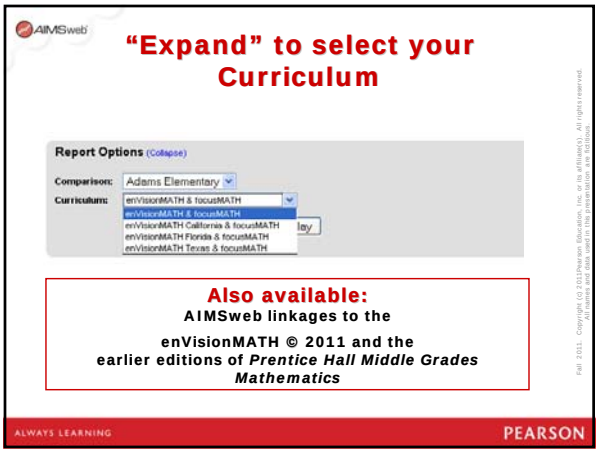
"Expand" to select your Curriculum
Report Options (Collapse)
Comparison:
Adams Elementary
Curriculum:
enVisionMATH & focusMATH
enVisionMATH & focusMATH
enVisionMATH California & focusMATH
enVisionMATH Florida & focusMATH
enVisionMATH Texas & focusMATH
Also available:
AIMSweb linkages to the
enVisionMATH © 2011 and the
earlier editions of Prentice Hall Middle Grades Mathematics
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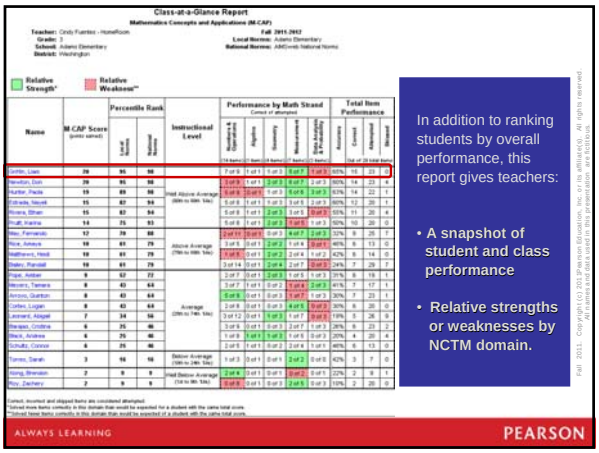
Class-at-a-Glance Report
Mathematics Concepts and Applications (M-CAP)
In addition to ranking students by overall performance, this report gives teachers:
• A snapshot of student and class performance
• Relative strengths or weaknesses by NCTM domain.
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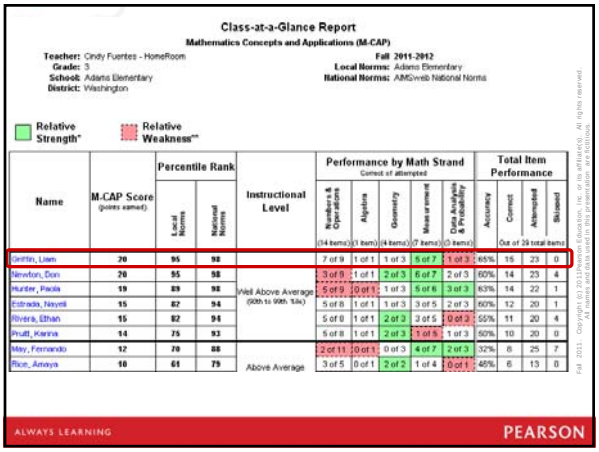
Class-at-a-Glance Report
Mathematics Concepts and Applications (M-CAP)
Teacher: Cindy Fuentes - HomeRoom
Grade: 3
School: Adams Elementary
District: Washington
Fall 2011-2012
Local Norms: Adams Elementary
National Norms: AIMSweb National Norms
Relative Strength*
Relative Weakness**
Name
M-CAP Score (points earned)
Percentile Rank
Local Norms
National Norms
Instructional Level
Performance by Math Strand
Correct of attempted
Numbers & Operations (14 items)
Algebra (3 item)
Geometry (4 items)
Measurement (7 items)
Data Analysis & Probability (3 items)
Total Item Performance
Accuracy
Correct
Attempted
Blissed
Out of 29 total items
Griffin, Liam 20 95 98 7 of 9 1 of 1 1 of 3 5 of 7 1 of 3 65% 15 23 0
Newton, Don 20 95 98 3 of 9 1 of 1 2 of 3 6 of 7 2 of 3 60% 14 23 4
Hunter, Paola 19 89 98 Well Above Average (90th to 99th %ile) 5 of 9 0 of 1 1 of 3 5 of 6 3 of 3 63% 14 22 1
Estrada, Neyeli 15 82 94 5 of 8 1 of 1 1 of 3 3 of 5 2 of 3 60% 12 20 1
Rivera, Ethan 15 82 94 5 of 8 1 of 1 2 of 3 3 of 5 0 of 3 55% 11 20 4
Pruitt, Karina 14 75 93 5 of 8 1 of 1 2 of 3 1 of 5 1 of 3 50% 10 20 0
May, Fernando 12 70 88 2 of 11 0 of 1 0 of 3 4 of 7 2 of 3 32% 8 25 7
Rice, Amaya 10 61 79 Above Average (75th to 89th %ile) 3 of 5 0 of 1 2 of 2 1 of 4 0 of 1 45% 6 13 0
Matthews, Heidi 10 61 79 1 of 5 0 of 1 2 of 2 2 of 4 1 of 2 42% 6 14 0
Bailey, Randall 10 61 79 3 of 14 0 of 1 2 of 4 2 of 7 0 of 3 24% 7 29 7
Pope, Amber 9 52 72 2 of 7 0 of 1 2 of 3 1 of 5 1 of 3 31% 6 19 1
Meyers, Tamara 9 43 64 3 of 7 1 of 1 0 of 2 1 of 4 2 of 3 41% 7 17 1
Arroyo, Quinton 8 43 64 Average (25th to 74th %ile) 0 of 5 0 of 1 0 of 3 3 of 7 1 of 3 30% 7 23 1
Cortes, Logan 8 43 64 2 of 8 0 of 1 0 of 3 4 of 5 0 of 3 30% 6 20 0
Leonard, Abigail 7 34 56 3 of 12 0 of 1 1 of 3 1 of 7 0 of 3 19% 5 26 9
Barajas, Cristina 6 25 46 3 of 5 0 of 1 2 of 3 1 of 3 1 of 3 26% 6 23 2
Black, Andrew 6 25 46 1 of 9 1 of 1 1 of 3 1 of 5 0 of 3 20% 4 20 4
Schultz, Connor 6 25 46 2 of 5 1 of 1 0 of 2 2 of 4 1 of 1 46% 6 13 0
Torres, Sarah 3 16 16 Below Average (10th to 24th %ile) 1 of 3 0 of 1 0 of 1 2 of 2 0 of 0 42% 3 7 0
Xiong, Brendon 2 9 9 Well Below Average (1st to 9th %ile) 2 of 4 0 of 1 0 of 1 0 of 2 0 of 1 22% 2 9 1
Roy, Zachery 2 9 9 0 of 5 0 of 1 0 of 1 2 of 5 0 of 3 10% 2 20 0
Correct, incorrect and skipped items are considered attempted.
*Solved more items correctly in this domain than would be expected for a student with the same total score.
**Solved fewer items correctly in this domain than would be expected of a student with the same total score.
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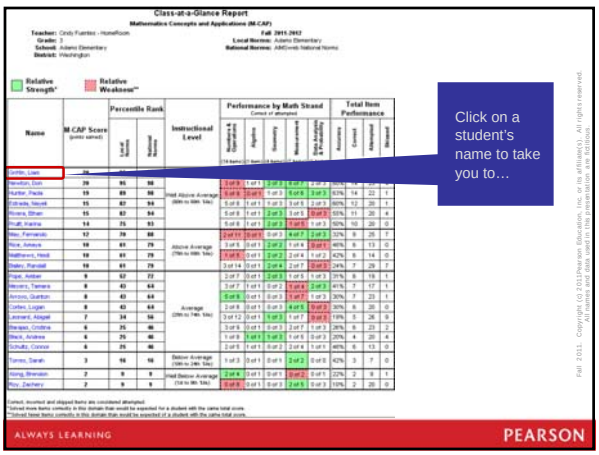
Class-at-a-Glance Report
Mathematics Concepts and Applications (M-CAP)
Click on a student's name to take you to…
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AIMSweb

M-CAP
Student Instructional Planning Report

- Grades **2-8 (M-CAP)**
- Provides a **detailed summary of individual student performance** in math
- Shows **performance by NCTM domain**, and the domains that are a relative strength or relative weakness for each student
- Provides **instructional recommendations** to *enVisionMATH Common Core*, *focusMATH Intensive Intervention*, and *Prentice Hall Mathematics* to personalize interventions

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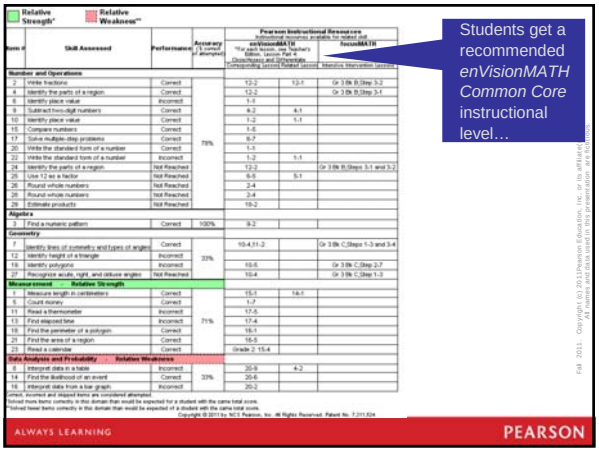

Students get a recommended *enVisionMATH Common Core* instructional level…

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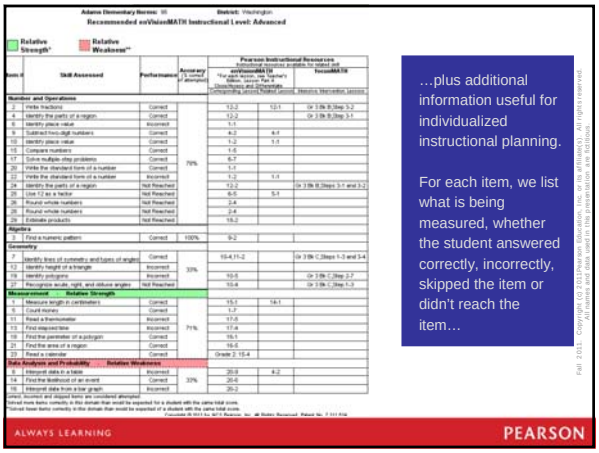

…plus additional information useful for individualized instructional planning.

For each item, we list what is being measured, whether the student answered correctly, incorrectly, skipped the item or didn't reach the item…

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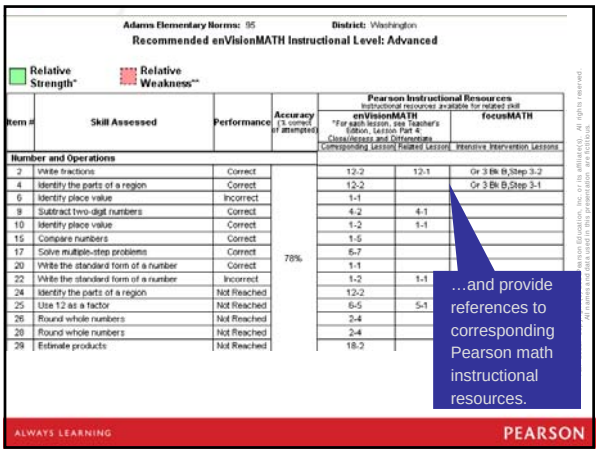
Adams Elementary Norms: 95
District: Washington
Recommended enVisionMATH Instructional Level: Advanced
Relative Strength*
Relative Weakness**
Item #
Skill Assessed
Performance
Accuracy (% correct of attempted)
Pearson Instructional Resources
enVisionMATH
focusMATH
Corresponding Lesson
Related Lesson
Intensive Intervention Lessons
Number and Operations
2 Write fractions Correct 78% 12-2 12-1 Gr 3 Bk B,Step 3-2
4 Identify the parts of a region Correct 12-2 Gr 3 Bk B,Step 3-1
6 Identify place value Incorrect 1-1
8 Subtract two-digit numbers Correct 4-2 4-1
10 Identify place value Correct 1-2 1-1
15 Compare numbers Correct 1-5
17 Solve multiple-step problems Correct 6-7
20 Write the standard form of a number Correct 1-1
22 Write the standard form of a number Incorrect 1-2 1-1
24 Identify the parts of a region Not Reached 12-2
25 Use 12 as a factor Not Reached 6-5 5-1
26 Round whole numbers Not Reached 2-4
28 Round whole numbers Not Reached 2-4
29 Estimate products Not Reached 18-2
…and provide references to corresponding Pearson math instructional resources.
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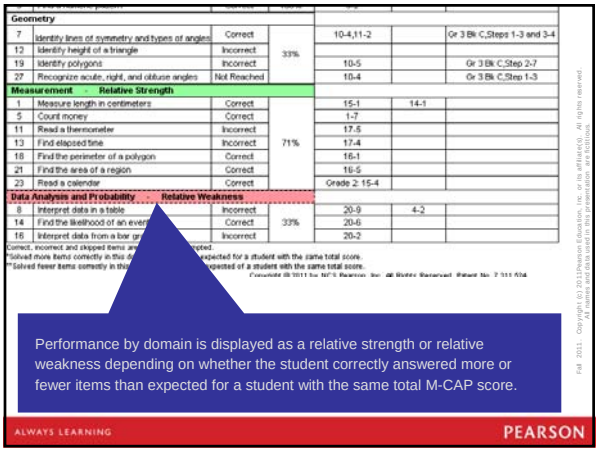
Geometry
7 Identify lines of symmetry and types of angles Correct 33% 10-4,11-2 Gr 3 Bk C,Steps 1-3 and 3-4
12 Identify height of a triangle Incorrect
19 Identify polygons Incorrect 10-5 Gr 3 Bk C,Step 2-7
27 Recognize acute, right, and obtuse angles Not Reached 10-4 Gr 3 Bk C,Step 1-3
Measurement - Relative Strength
1 Measure length in centimeters Correct 71% 15-1 14-1
5 Count money Correct 1-7
11 Read a thermometer Incorrect 17-5
13 Find elapsed time Incorrect 17-4
18 Find the perimeter of a polygon Correct 16-1
21 Find the area of a region Correct 16-5
23 Read a calendar Correct Grade 2: 15-4
Data Analysis and Probability - Relative Weakness
8 Interpret data in a table Incorrect 33% 20-9 4-2
14 Find the likelihood of an event Correct 20-6
16 Interpret data from a bar graph Incorrect 20-2
Performance by domain is displayed as a relative strength or relative weakness depending on whether the student correctly answered more or fewer items than expected for a student with the same total M-CAP score.
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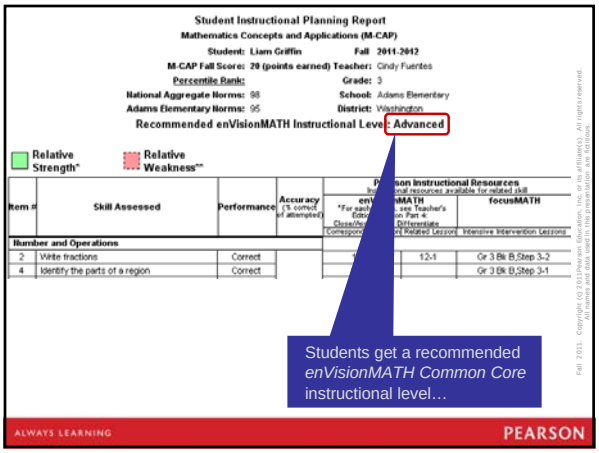
Student Instructional Planning Report
Mathematics Concepts and Applications (M-CAP)
Student: Liam Griffin
Fall 2011-2012
M-CAP Fall Score: 20 (points earned)
Teacher: Cindy Fuentes
Percentile Rank:
Grade: 3
National Aggregate Norms: 98
School: Adams Elementary
Adams Elementary Norms: 95
District: Washington
Recommended enVisionMATH Instructional Level: Advanced
Relative Strength*
Relative Weakness**
Item #
Skill Assessed
Performance
Accuracy (% correct of attempted)
focusMATH
Number and Operations
2 Write fractions Correct 12-1 Gr 3 Bk B,Step 3-2
4 Identify the parts of a region Correct Gr 3 Bk B,Step 3-1
Students get a recommended enVisionMATH Common Core instructional level…
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Case Study 1

Paola Hunter

Grade 3

Advanced

Math Concepts & Applications (M-CAP)

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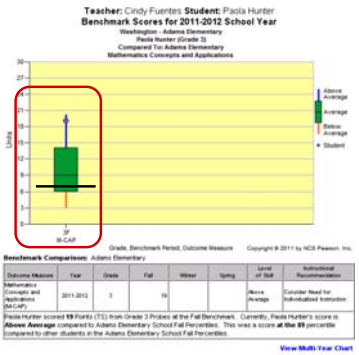
Fall Benchmark Period



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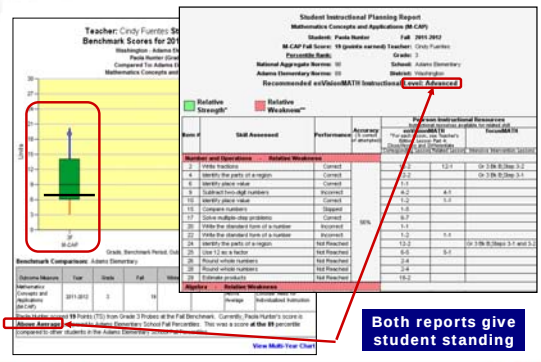
Fall Benchmark Period



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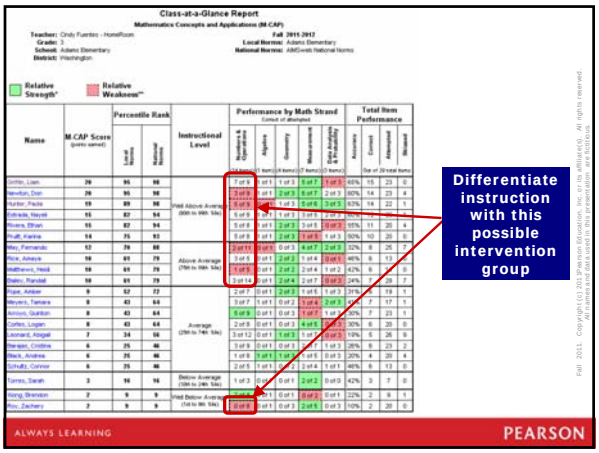

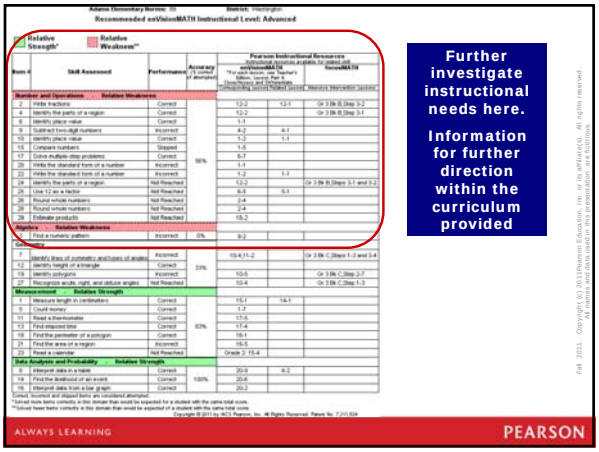

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Case Study 2

Brendon Xiong

Grade 3
Below-Level
Math Concepts & Applications
(M-CAP)

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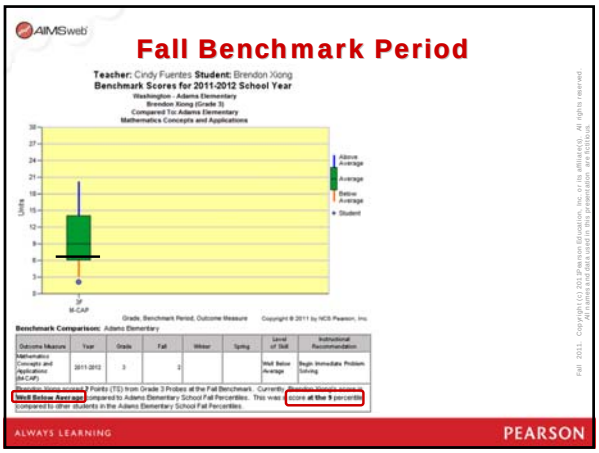
AIMSweb
Fall Benchmark Period
Teacher: Cindy Fuentes Student: Brendon Xiong
Benchmark Scores for 2011-2012 School Year
Washington - Adams Elementary
Brendon Xiong (Grade 3)
Compared To: Adams Elementary
Mathematics Concepts and Applications
Above Average
Average
Below Average
Student
Units
M-CAP
Grade, Benchmark Period, Outcome Measure
Benchmark Comparisons: Adams Elementary
Outcome Measure
Year
Grade
Fall
Winter
Spring
Level of Skill
Instructional Recommendation
Mathematics Concepts and Applications (M-CAP)
2011-2012
3
3
Well Below Average
Begin Immediate Problem Solving
Well Below Average
at the 9 percentile
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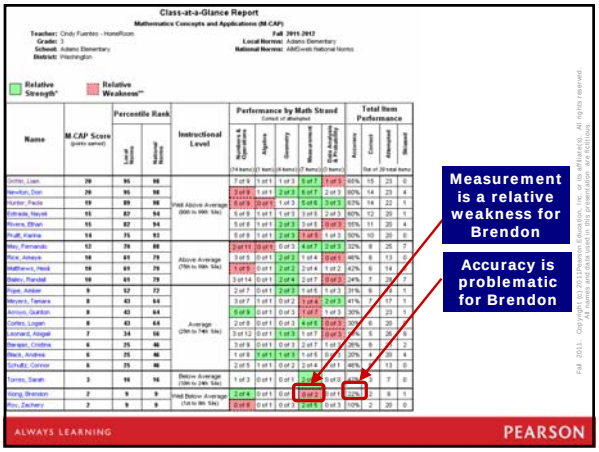
Class-at-a-Glance Report
Mathematics Concepts and Applications (M-CAP)
Fall 2011-2012
Relative Strength*
Relative Weakness**
Name
M-CAP Score
Percentile Rank
Instructional Level
Performance by Math Strand
Total Item Performance
Measurement is a relative weakness for Brendon
Accuracy is problematic for Brendon
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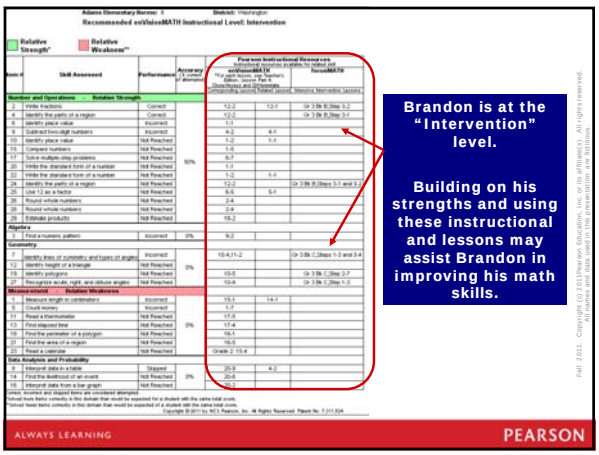
Relative Strength*
Relative Weakness**
Recommended enVisionMATH Instructional Level: Intervention
Skill Assessed
Performance
Accuracy
Brandon is at the "Intervention" level.
Building on his strengths and using these instructional and lessons may assist Brandon in improving his math skills.
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For COMMON CORE!

Demo of AIMSweb +

enVisionMATH Common Core & Prentice Hall Middle Grades Mathematics, Common Core Edition

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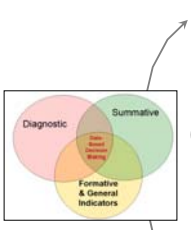
Relationship between Universal Screening, Diagnostic Assessments, and Instruction:



Formative

All Students: Universal Screening

Diagnostic

Some Students:
- Criterion-referenced assessments
- Cognitive assessments
- Norm-referenced, standardized tests, etc.

Instruction

All Students:	Core Instruction
Subset:	Core + / or Intensive Intervention

Formative

Some Students: Progress Monitoring

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What are enVisionMATH Common Core, focusMATH Intensive Intervention, and Prentice Hall Mathematics?

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enVision*MATH Common Core*, focus*MATH Intensive Intervention*, & Prentice Hall Mathematics

- ***enVisionMATH Common Core*** is a core curriculum with additional activities and homework for three instructional levels:
  - Advanced
  - On-level
  - Intervention
- ***focusMATH Intensive Intervention*** is an intervention program focused on foundational skills.
- ***Prentice Hall Mathematics*** is also available, grades 6-8

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Prentice Hall Middle Grades Math Common Core Edition ©2012

100% alignment to the Common Core State Standards

Common Core Lessons in the Student Edition

Teacher Lesson Support and Pacing in the Teacher Edition

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Pearson Results

Statistically significant gains in student performance

across different ***areas of math***:

on math problem-solving

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Pearson Results

Statistically significant gains in student performance

across different ***areas of math***:

on concepts and estimation

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Pearson Results

Statistically significant gains in student performance

across different ***areas of math***:

on math vocabulary

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Pearson Results

Statistically significant gains in student performance

across different ***areas of math***:

on math communication

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Pearson Results

Statistically significant gains in student performance

across different ***areas of math***:

27% **on math computation**

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Prentice Hall

Middle Grades Math

1. Hands-on Activities
2. Problem Solving
3. Differentiation
4. Data-driven Decisions

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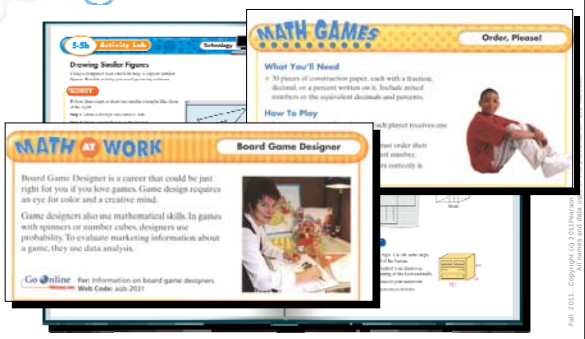
1 Hands-on Activities



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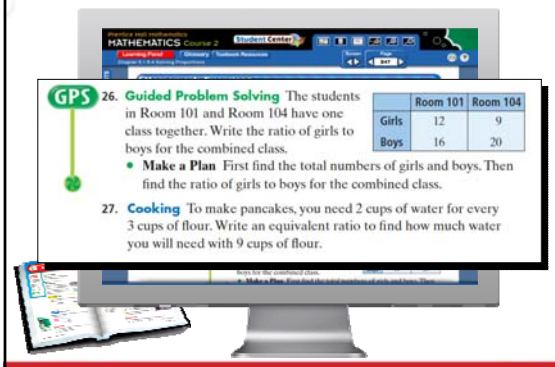
2 Problem Solving



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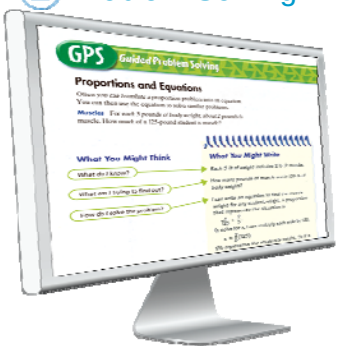
2 Problem Solving



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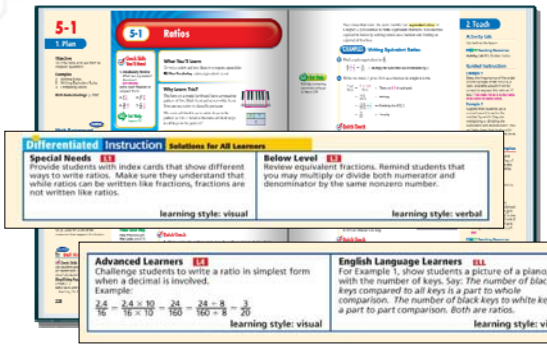
3 Differentiated Instruction



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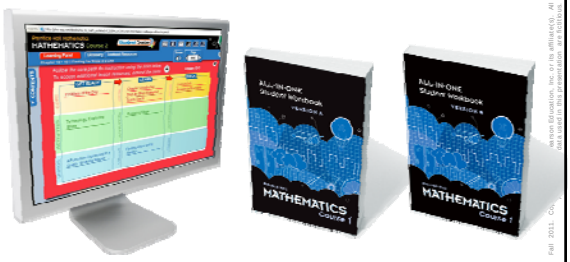
3 Differentiated Instruction

All-In-One Workbook

Four Workbooks Combined Into One



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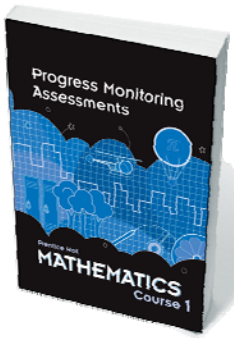
4 Data-driven Decisions



Formative Assessments

Screening Test - check student readiness at the beginning of the school year

Benchmark Tests - monitor student progress at six-week intervals

Test-Taking Strategy Practice Masters - provide opportunities to improve test-taking skills

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4 Data-driven Decisions

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Online Text

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Student Center

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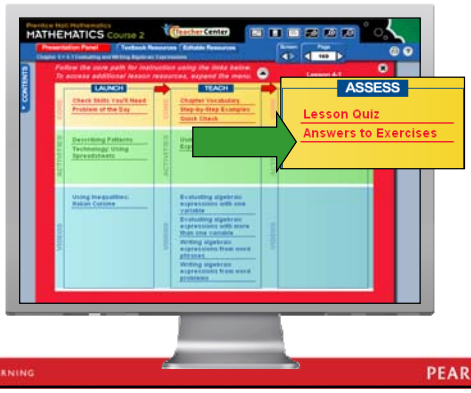
Teacher Center



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Editable Resources

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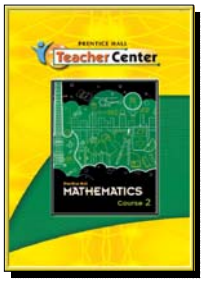
Teacher Support



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Prentice Hall

Middle Grades Math

It Works!

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The End

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