

# AUSD Board Presentation District Mathematics Initiative Updates

April 27, 2010

Phil Gonsalves, ACOE, CSUEB





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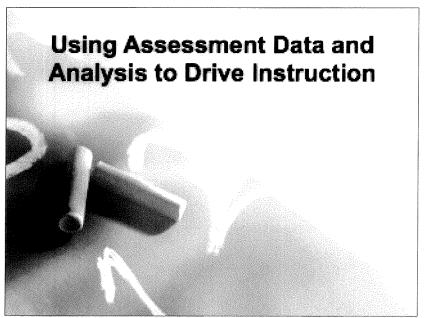
## **Updates on AUSD Mathematics Initiatives**

- Summary of professional development activities for teachers and administrators
- Strategic and Intensive Mathematics Initiative-Phase 2 (SIMI-2) CaMSP Research Cohort grant
- Summer PD opportunities for AUSD teachers
- Planning 2010-11 mathematics initiatives
- Mathematics Achievement Academies (MAA)

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### Summary of 2009-10 PD Activities

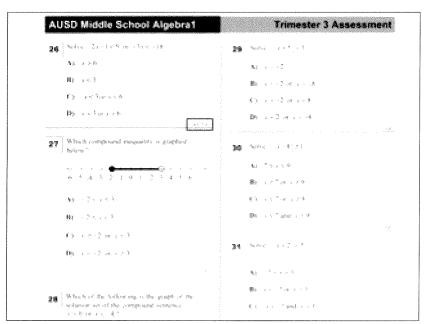
- After school PD sessions focused on:
  - Developing instructional mitigations based on trimester assessment data
  - Revised, and posted online, Grades K-Algebra Pacing Guides for 2010-11
  - ▶ Revised Grades K-Algebra assessments
  - 25 AUSD teachers attended the Saturday, October 24
     PD
  - ▶ 29 AUSD teachers attended the Saturday, March 13 PD
- Support for Principals included:
  - Developing instructional mitigations based on trimester assessment data
  - ▶ Elementary site visits and "walk-throughs"



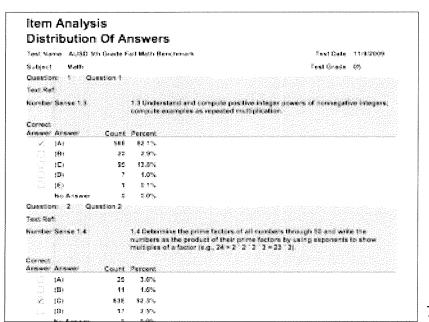
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#### Appropriate Use of Formative Assessments:

- To inform practice
- To develop and implement instructional mitigations
- To develop and implement best practices specific to the content
- To inform professional development needs and focus
- To examine general district/site trends
  - not to use for any type of evaluation



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#### AUSD Grade 3 Trimester 1 Assessment #21 (n = 641)

- 21 In April the school collected 3.721 cans for recycling. In May the school collected 4.233 cans. How many the cans were collected in May than in April?
- (A) 412 5.1%

key (B) 512 66%

- © 1812 (2.5%)
- (D) 7,954 (6.1%)

April

3,721 cans

-

4,233 cans

0.3% (2 students) no answer

May

What percent of the students chose A, B, C and D?

What possible errors might students have made to obtain each of the incorrect responses?

9

#### AUSD Grade 5 Trimester 1 Assessment #23 (n = 689)

23 Find the answer in simplest form

A) 12 (18.4%)

 $\frac{3}{8} \times \frac{4}{10}$ 

B) 6 7.1%

32·2 222·23

key  $C1 = \frac{3}{20} = 64.7\%$ 

 $\mathbf{p}_1 = \frac{3}{10} \quad \mathbf{8.9\%} = \frac{3}{2}$ 

0.9% (6 students) no answer

What percent of the students chose A, B, C and D?

What possible errors might students have made to obtain each of the incorrect responses?

#### AUSD Grade 8 Trimester 1 Assessment #10 (n = 592)

10 Solve 
$$\frac{4x}{5} - 2 = 0$$
  
A)  $x = -12$  3.9%  $\frac{4x}{5} - 2 = 0$   
B)  $x = -2.5$  11.5%  $\left(\frac{5}{4}\right) \frac{4x}{5} = \left(\frac{5}{4}\right) 2$   
D)  $x = 8$  7.3%  $x = \frac{5}{2} = 2.5$ 

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With a constant of the students have made to obtain each of the incorrect responses? x=2.5

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#### General Trends/Patterns:

- Need for professional development in the primary grades on rounding
- Need for ongoing professional development for Grades 3-5, and more intensive professional development for Grades 6-8 on implementing best practices — focusing on decomposition, relational thinking & use of alternative algorithms
- Eliminate the number of students omitting questions – direct instruction and monitoring



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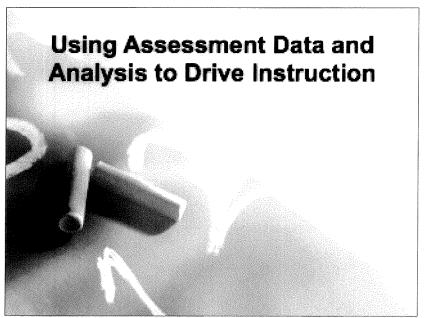
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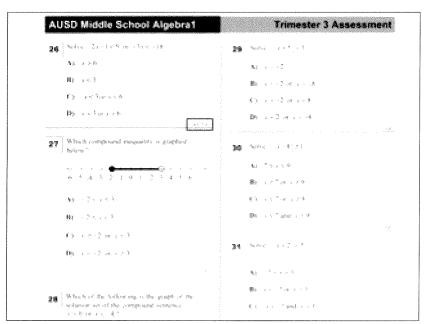
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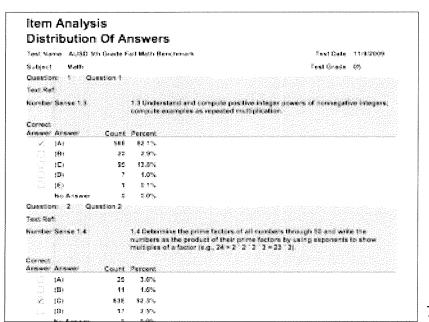
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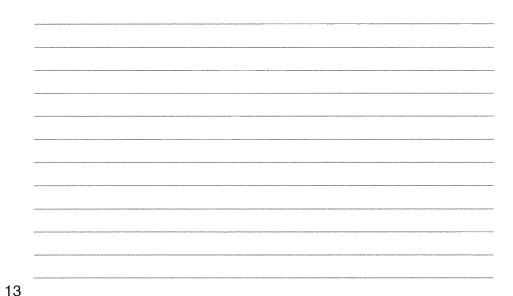
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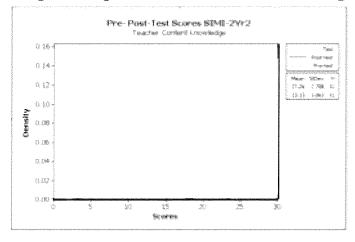
#### SIMI-2 CaMSP Research Cohort Grant Updates

- 2010-11 is the final year of the grant
- 2010 Summer Institute working with district and site administration to increase the number of AUSD participants from previous years and on teacher selection
- SIMI-2 was recommended by CDE to the USDE as a model MSP project

"the most rigorous and innovative professional development model that could be shared with other projects as models that could potentially be replicated in other areas"



# SIMI-2 Data on Strengthening Teacher Content Knowledge



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# Summary of Summer 2010 PD Opportunities For AUSD Teachers

- Increase number of SIMI-2 participants
- ACOE sponsored 3-Day Secondary Mathematics Institute
- ACCLAIM Institutes

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# Planning for AUSD 2010-11 Mathematics Initiatives

- Based on feedback from teachers & administrators:
  - ▶ Provide coaching support to all elementary schools:
    - Aimée Penn, Katherine Crawford, 2 additional AUSD elementary coaches
    - Rick Doran MS coach, Joy Sigmon HS coach
  - Increase the number of elementary teachers receiving coaching support
- Continue with MS and HS coaches
- ACOE contribution, specialist Hilda Aguilar, to secondary coaching

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#### **AUSD Grade 5 Summer Mathematics Camps**

- ▶ Two one-week mathematics camps
- ▶ 50 entering 5th grade students
- ▶ Taught by Aimée Penn
- ▶ Sponsored by MDC@ACOE
- ▶ Starting June 28 and July 12 @ Paden
- Working with district and site administration on selection of students

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#### Mathematics Achievement Academies (MAA):

- Two sections of a 5-week summer algebra academy for incoming 9th graders
- Taught by AUSD teachers at EHS and coordinated by
   Shayne Fleming
- ▶ Two CSUEB mentors for each section
- ▶ Sponsored by MDC@ACOE and CSUEB
- ▶ June 21 July 23
- ▶ 2011 4 sections (2 Algebra, 2 Geometry)
- ▶ 2012 6 sections (2 Algebra, 2 Geometry, 2 Algebra II)
- Working with district and site administration on selection of students

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