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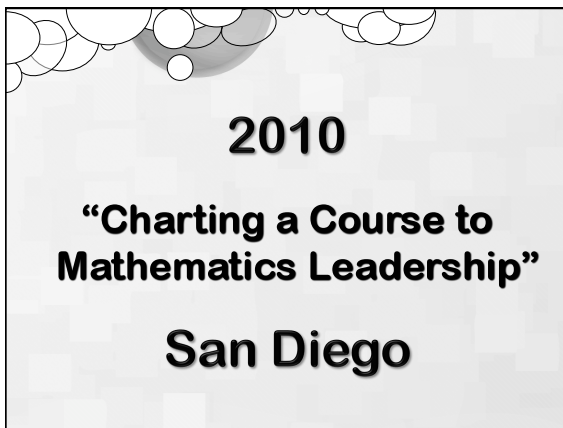
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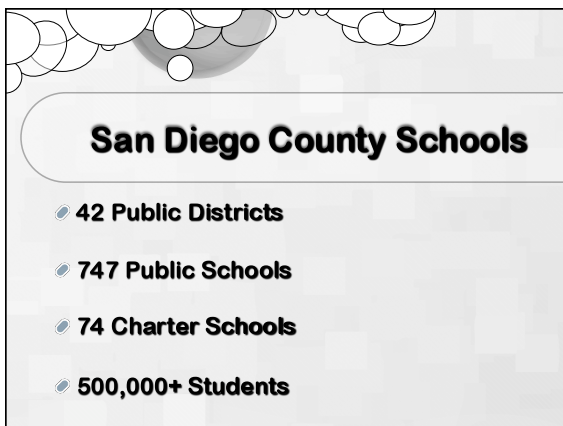
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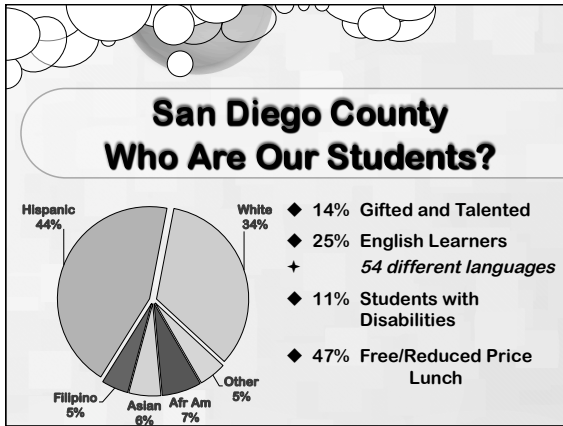
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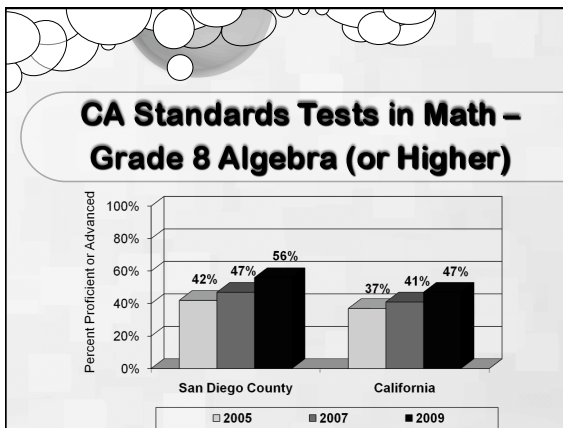
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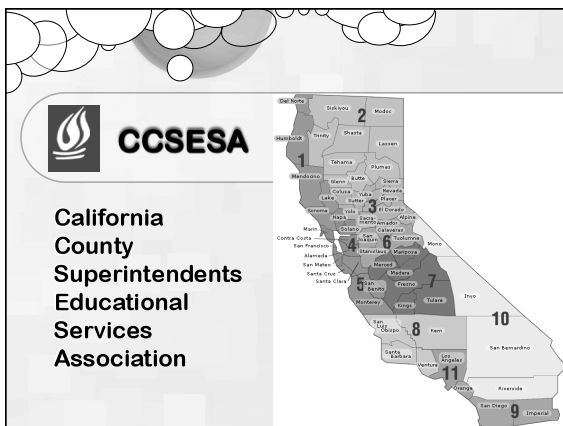
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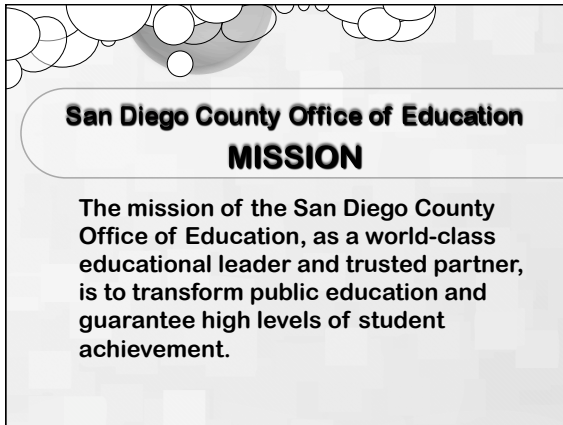
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**San Diego County Office of Education**  
**MISSION**

The mission of the San Diego County Office of Education, as a world-class educational leader and trusted partner, is to transform public education and guarantee high levels of student achievement.

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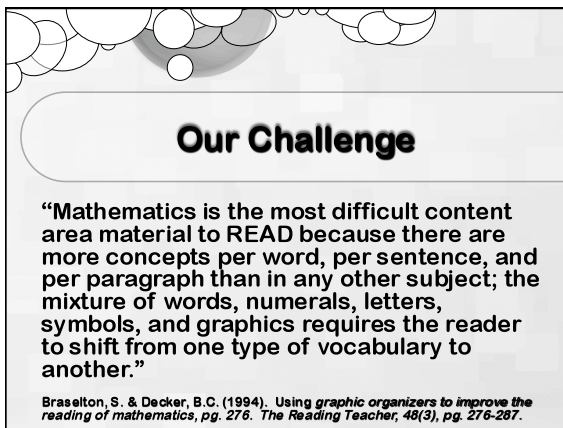
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**Our Challenge**

“Mathematics is the most difficult content area material to READ because there are more concepts per word, per sentence, and per paragraph than in any other subject; the mixture of words, numerals, letters, symbols, and graphics requires the reader to shift from one type of vocabulary to another.”

Braselton, S. & Decker, B.C. (1994). Using *graphic organizers to improve the reading of mathematics*, pg. 276. *The Reading Teacher*, 48(3), pg. 276-287.

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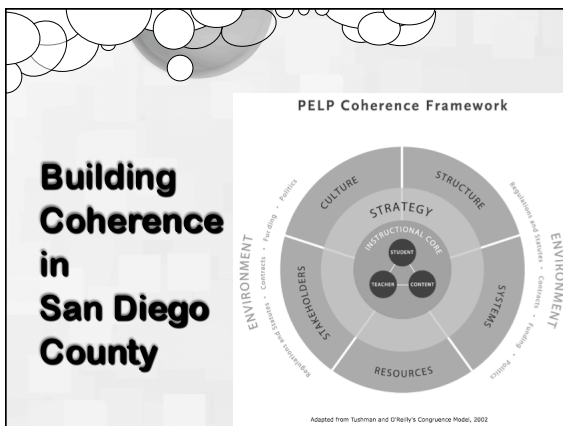
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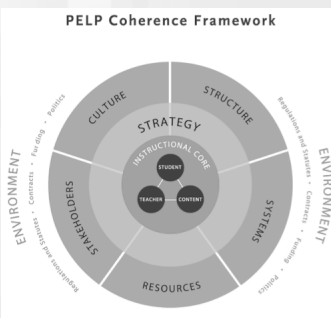
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**Building Coherence in San Diego County**

PELP Coherence Framework



The diagram is a circular model with concentric layers. The innermost core consists of 'STUDENT' and 'TEACHER' connected by 'CONTENT'. This core is surrounded by 'INSTRUCTIONAL CORE'. The next layer is 'STRATEGY'. The outer ring is divided into four quadrants: 'CULTURE' (top-left), 'STRUCTURE' (top-right), 'SYSTEMS' (bottom-right), and 'RESOURCES' (bottom-left). The entire model is enclosed within an 'ENVIRONMENT' layer, which is further defined by 'STANDARDS' on the left and 'Mathematical and Science Practices' on the right. Small text at the bottom reads: 'Adapted from Fullman and O'Reilly's Coherence Model, 2002'.

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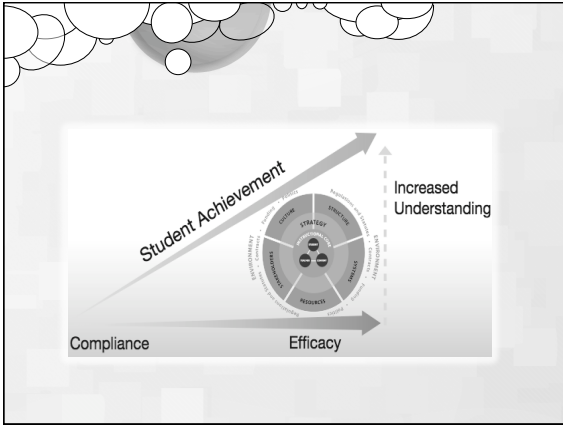
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### Six Strands of the NCSM Event

- Charting a Course to:
- Equity and Access
- Curriculum Leadership
- Teaching and Learning Leadership
- Assessment Leadership
- Putting PRIME into Practice
- Developing Coaches – Developing Teachers

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### State Collaboration

- California Department of Education
- California County Superintendents Educational Services Association (CCSESA)
- County Offices' Curriculum and Instruction Steering Committee (CISC)
- California Algebra Forum Statewide Network
- California Mathematics Council (CMC)

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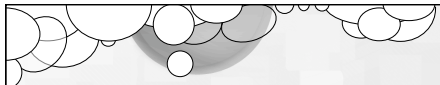
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### Local Collaboration

- ◆ Region 9 Counties – Imperial and Orange COE
- ◆ San Diego County Superintendents' Achievement Gap Task Force
- ◆ San Diego County Curriculum and Instruction Administrators
- ◆ San Diego County Math Leaders Network Advisory
- ◆ Greater San Diego Mathematics Council (GSDMC)

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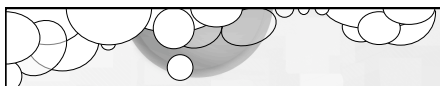
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### San Diego County Student Academic Competitions

In partnership with the *Greater San Diego Math Council*:

- ◆ Challenge 24 Math Program (Grades 4-8)
- ◆ Elementary, Middle, & Senior High Math Field Days (Grades 4-12)
- ◆ Honors Math Contest (Grades 9-12)
- ◆ Honors Statistics Content (Grades 9-12)

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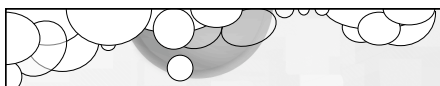
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### Statewide Efforts

- ◆ Framework Rollouts
- ◆ County Course of Study
- ◆ Instructional Material Adoption Toolkit
- ◆ Instructional Material Professional Development for Teachers and Administrators (SB 472 & AB 430)

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### Instructional Materials Professional Development 2009-2010

- 6,300 Teachers/Administrators
- 96,350 Hours

(SB472 and AB430)

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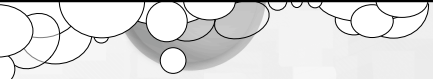
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### Local Efforts

- Superintendents' Achievement Gap Task Force
- San Diego County CAHSEE Compact
- San Diego County Algebra I Initiative
- Getting Ready for Algebra Online and CAHSEE Prep

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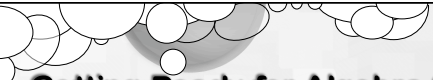
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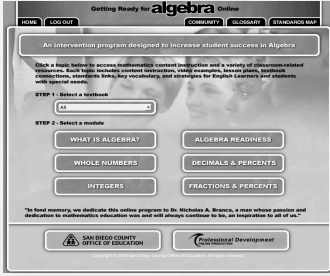
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### Getting Ready for Algebra Online



<http://www.readyforalgebra.org>

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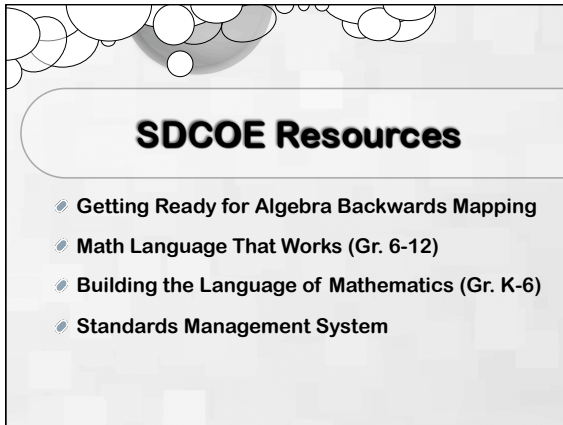
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**SDCOE Resources**

- ◆ Getting Ready for Algebra Backwards Mapping
- ◆ Math Language That Works (Gr. 6-12)
- ◆ Building the Language of Mathematics (Gr. K-6)
- ◆ Standards Management System

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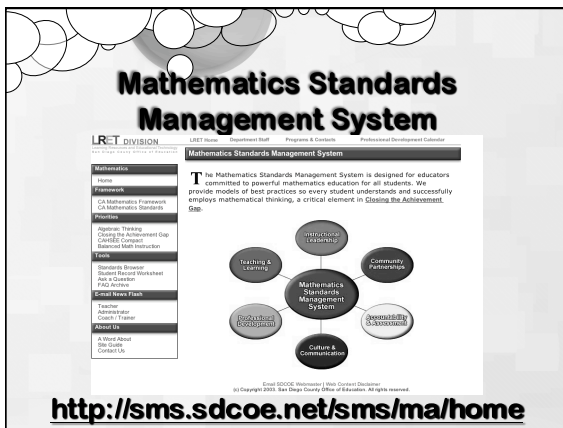
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**Mathematics Standards Management System**

**LRT DIVISION** | **Mathematics Standards Management System** | Professional Development Center

**Mathematics**  
Home  
Mathematics  
CA Mathematics Framework  
CA Mathematics Standards  
Home

**Algebra, Trigonometry, and Calculus**  
Using the Assessment Gap  
CABE Contact  
Algebra Math Instruction  
Math

**Mathematics Standards**  
Student Record Worksheet  
Math Standards  
Closed News Flash  
Teacher  
Administrator  
Coach / Planner  
Parent / G  
A Word About  
Our Study  
Contact Us

The Mathematics Standards Management System is designed for educators committed to powerful mathematics education for all students. We provide models of best practices so every student understands and successfully employs mathematical thinking, a critical element in closing the achievement gap.

Instructional Leadership  
Community Partnerships  
Mathematics Standards Management System  
Professional Development  
Teaching & Learning  
Research & Evaluation  
Culture & Communication

<http://sms.sdcoe.net/sms/ma/home>

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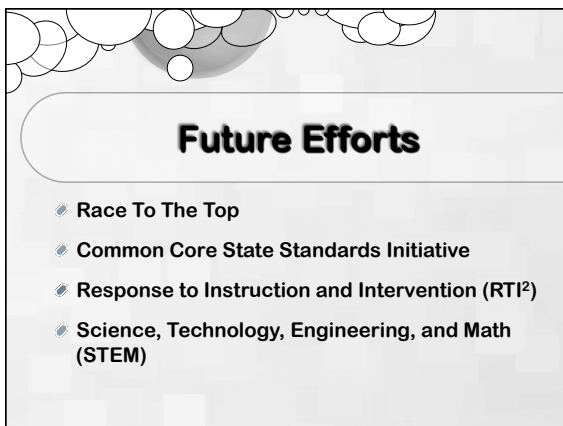
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**Future Efforts**

- ◆ Race To The Top
- ◆ Common Core State Standards Initiative
- ◆ Response to Instruction and Intervention (RTI<sup>2</sup>)
- ◆ Science, Technology, Engineering, and Math (STEM)

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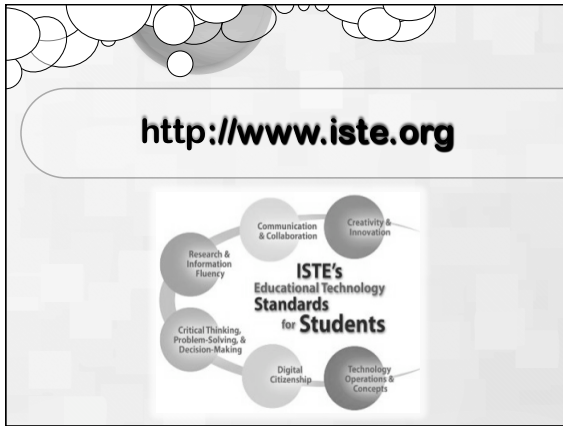
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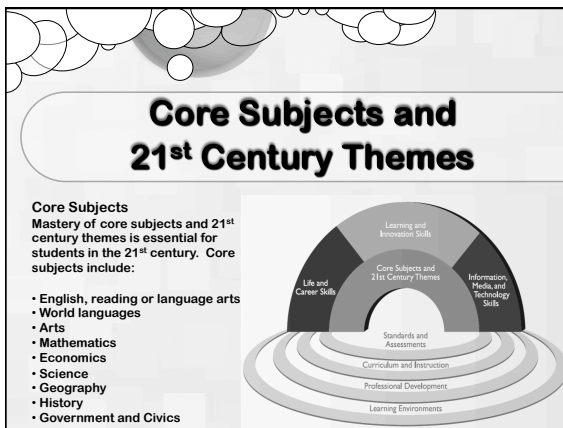
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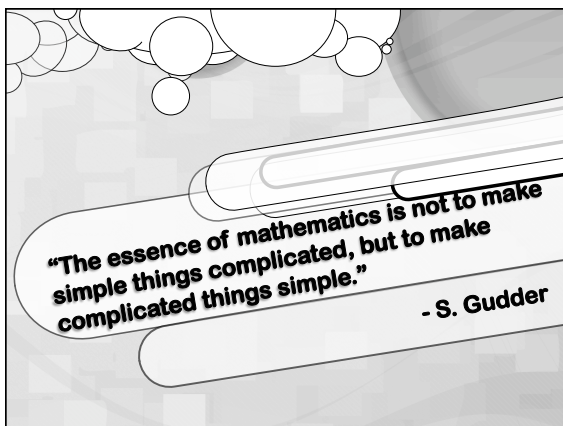
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### Places to See in San Diego

- ◆ Old Town
- ◆ Balboa Park
- ◆ Seaport Village

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### Attractions & Museums

- ◆ Birch Aquarium
- ◆ Legoland
- ◆ San Diego Zoo
- ◆ SeaWorld
- ◆ Reuben H. Fleet Science Center
- ◆ San Diego Air & Space Museum
- ◆ San Diego Super Computer Center
- ◆ USS Midway Museum



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# ENJOY!

42<sup>nd</sup> NCSM Annual Conference  
San Diego  
April 19-21, 2010



Charting a Course to Mathematics Leadership

**Nancy Giberson, Ph.D.**  
Assistant Superintendent  
San Diego County Office of Education

**NCSM** LEADERSHIP IN MATHEMATICS EDUCATION  
NETWORK  
COMMUNICATE  
SUPPORT  
MOTIVATE  
[www.mathleadership.org](http://www.mathleadership.org)

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