Common Core Teaching Strategies for EL Students: Models for High School Mathematics and Science

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Champions for Leadership
June 12, 2012
Professional Goals

• Vision for a Common Core Resource Center

• Strengthen Leadership Skills

• Understand the SCCOE

• Develop Interpersonal Skills
Project Goals

• Create resources/ and new models for teachers and English Learners (EL) to better understand core content areas

• Implement resources/ and new models to test and revise their effectiveness with all EL students

• Analyze Outcomes
Accomplishments

• Attended
  – CFL seminars
  – *A Look at Learning* 5-day Institute
  – Specialized EL Strategy Workshops
  – Algebra Forum Conference

• Conducted research:
  – Common core standards
  – EL instruction
  – Assessment, including data analysis
Steps

• Evaluated CCSS information and existing models

• Created A.L.L. lesson plans incorporating research based best practices:
  – Planning guide/lesson plan objectives
  – Rubric for assessments/Sentence Frames
  – Specially Designed Academic Instruction in English (SDAIE) strategies
Steps

• Modeled lessons for teacher and students
• Analyzed data from implementation
• Revised lesson strategies
Student EL Reflection Card

Student Reflection

1. I feel strongly that I can relate well to coordinate graphs.

2. I feel strongly that I can explain coordinate graphs to others.

3. I believe I can apply coordinate graphs to real-world examples.
Student Reflection

1. I feel strongly that I can relate well to coordinate graphs.

2. I feel strongly that I can explain coordinate graphs to others.

3. I believe I can apply coordinate graphs to real world examples.

Student Reflection

1. I feel somewhat strong that I can relate well to coordinate graphs.

2. I feel somewhat strong that I can explain coordinate graphs to others.

3. I believe I can somewhat apply coordinate graphs to real world examples.

Student Reflection

1. I do not feel strongly that I can relate well to coordinate graphs.

2. I do not feel strongly that I can explain coordinate graphs to others.

3. I do not believe that I can apply coordinate graphs to real world examples.
Student Reflection

Student's Name: __________________________

Date: __________________________
Period: __________________________

Today's content/language objective: __________________________

☐ ☑ 1. I believe that I learned today's lesson.

☐ ☐ 2. I need some help on today's lesson

☐ ??? 3. I really need help in learning today's lesson

Complete back page

Your Thoughts

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<th>I learned . . .</th>
<th>I need help with . . .</th>
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Formative Assessment

Student Feedback
I know this concept/term very well and can explain it to others.

I have heard about this concept/term; but I am not ready to provide an explanation.

I need to learn more about this concept/term.
Sentence Frames

CELDT Level: Beginning – Use subject/content specific academic words
Coordinate Planes and Ordered Pairs (Part B)
To plot the point _____ on the coordinate plane, first move ____ unit(s) to the _____ of zero on the x-axis, then move _____ unit(s) _____ on the y-axis, from zero, or the origin. The point will be where x is ___ and y is ____ intersect each other. Next, mark the point. Then, write the ________________ next to each point on the graph.

CELDT Level: Early Intermediate – Use subject/content specific academic words
Coordinate Planes and Ordered Pairs (Part E)
To _____ the point _____ on the ______________________ plane, first move ____ unit(s) to the _____ of zero on the ____-axis, then move ____ unit(s) _____ on the ____-axis from zero, or the origin. The point will be at the intersection of where x is ___ and y is _____. Next, mark the point. Then, write the __________________ next to each point on the graph.
Success

• Created Differentiated Sentence Frames for EL Students
• Created Core Content Lessons for Math and Science
• New Leader for Math and Science
• Have Inspired Other Teachers to Reflect on Student Learning and Current Teaching Strategies
Key Learnings

• New Focus on Core Lesson Approach
• Outcomes of Lesson Planning Met Content and Language Objectives
• Strong EL Strategies That Can Help to Support Teachers
• A Beginning Place to Continue to Develop Lessons For Common Core
Next Steps

• Continue to Develop Core Content Lessons to Support EL Students and Teachers in Math and Science
• Develop Teacher and Student Access To Lessons and EL Strategies in the Classroom Through Technology Resources
• Continue to Model EL Content Lessons to Teachers and Students in the Classroom
• Continue to Evaluate Latest Research for Common Core and Formative Assessment Practices
Thanks

• A very special thank you to Yee Wan, for the opportunity to work on the ALL (A Look At Learning) EL Lesson Development
• A very special thank you to my ALL colleagues: Tara Strong, Yohannes Almesett, Stephanie Boulianne, and Maria Magana
• A very special thank you to my mentor Jivan Dhaliwal, for all of her positive support
• Avery special thank you to Delma Davis or her support and guidance for the CFL power point
• A very special thank you the Champions For Leadership Staff who made all of this possible