

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

Dottie Desfosses Champions for Leadership

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Santa Clara County 🗳 Office of Education

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

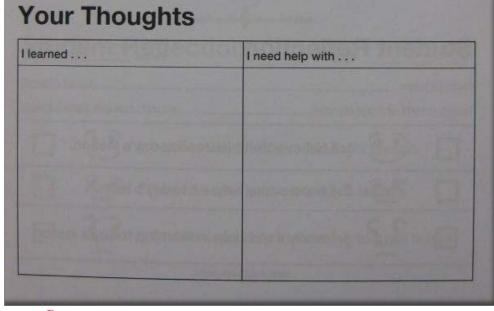
2. 1 do not feel strongly that I can explain coordinate graphs to others.

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

Stud	ent	Reflection	Date: Period:
Student's Nan			
Today's conte	nt languag	e 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	n learning today's lesson
12 - S.S.	1000	Complete back page	ge

Student Feedback

Formative Assessment



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 _____non the _____non the _____on the _____on 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

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