Sacramento City Unified School District
Putting Children First

Math Common Core Summer Institute

Day 2 –

Welcome

Please sit by grade level.

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Video

Math Common Core Student Observation Guide

- Based on Phil Daro 5x8 card
- Focus on the students

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Video

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California Draft Framework

Read

- Cooperative Learning p.11

and

- Student Engagement Strategies p.15

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California Draft Framework

As you read:

- ☆what you're already doing
- Underline what you're going to try
- Circle any questions you have

Reflection

On your yellow piece of paper folded in half:

- What strategies have you seen/read about that you could implement next year?

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Revision of Units of Study

What are the components of a Unit of Study ?

- Enduring Understanding
- Essential Questions
- Knowledge
- Application
- Assessments
- Lesson Plans

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Format Example

Ratios and Proportional Relationships 7.RP

Domain

Analyze proportional relationships and use them to solve real-world and mathematical problems.

Standard

1. Compute unit rates associated with ratios of fractions, including ratios of lengths, areas and other quantities measured in like or different units. *For example, if a person walks 1/2 mile in each 1/4 hour, compute the unit rate as the complex fraction 1/2/1/4 miles per hour, equivalently 2 miles per hour.*
2. Recognize and represent proportional relationships between quantities.
a. Decide whether two quantities are in a proportional relationship, e.g., by testing for equivalent ratios in a table or graphing on a coordinate plane and observing whether the graph is a straight line through the origin.
b. Identify the constant of proportionality (unit rate) in tables, graphs, equations, diagrams, and verbal descriptions of proportional relationships.
c. Represent proportional relationships by equations. *For example, if total cost t is proportional to the number n of items purchased at a constant price p, the relationship between the total cost and the number of items can be expressed as t = pn*.
d. Explain what a point *(x, y)* on the graph of a proportional relationship means in terms of the situation, with special attention to the points (0, 0) and (1, *r)* where *r* is the unit rate.
3. Use proportional relationships to solve multistep ratio and percent problems. *Examples: simple interest, tax, markups and markdowns, gratuities and commissions, fees, percent increase and decrease, percent error.*

Cluster

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Content Standards

Read from the standards

- Grades 6-7: Ratios and Proportions
- Grade 8: Expressions and Equations

What is familiar, new or different in the Common Core Standards?

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Content Standards

Whip-Around Protocol

- Everyone at your table gets 1 minute
- Share what you noticed is familiar, new or different

Revision of Units of Study

Lesson Plan Rubric

As needed:

- Ensure standards are addressed
- Complete sections
- Make directions more explicit

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Lunch

1 hour

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Revision of Units of Study

- Use the rubric to review a lesson
- Revise the lesson as needed
- If time, revise another lesson

Revision of Units of Study

- Exchange lessons with a neighboring group
- Use the Tuning Protocol to review each other's lessons
- Revise again, as needed

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Revision of Units of Study

Tuning Protocol

Rigor – Another Way

Cognitive Rigor Matrix

- How is it similar to Bloom's?
- How is it similar to Hess' DOK?

Rigor – Another Way

Sorting Tasks

- As a table, decide where each task lies on the Cognitive Rigor Matrix
- For tasks that are very low in rigor, how could you change the task to make it more rigorous?
- How are the SMPs and shifts evident in the tasks?

Reflection

On your yellow piece of paper folded in half:

- **When using a lesson plan, what do you find as the most helpful element?**

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Have a great afternoon!

Be prepared to read tomorrow morning

See you at 8:30am!

Suggested homework –

CA Draft Framework on Instructional Strategies