Sacramento City Unified School District
Putting Children First

## Welcome Back!

# $\mathbf{C}^{2} \mathbf{S}^{\mathbf{2}}$ Mathematics 

## Session 4 Grade 6

## Check-In

- What is something you are proud of that your students have accomplished this year?

Sacramento City Unified School District

## Common Core Standards Framework

Curriculum


Teaching \& Learning

# Inquiry-Based Design Methodology 



## Agenda

- Student Work Examination
- Creating a Unit of Study
- Standards Interpretation (Review of Enduring Understandings)
- Expected Student Evidence (Knowledge and Application)
- Guiding Questions

Break (~10:15am) - 10 minutes

- Assessments
- Lesson Sequence
- Teacher Post-Assessment

Lunch (~11:40) - 1 hour

- Lesson Planning and Presentations


## Sacramento City Unified School District

## Rubric for Reviewing Student Work

| $\mathbf{0}$ | $\mathbf{1}$ | $\mathbf{1}$ | $\mathbf{2}$ |
| :--- | :--- | :--- | :--- |
| Nothing Correct | Correct answer with <br> procedure and no <br> conceptual explanation <br> given | Correct answer with <br> procedure (for example, <br> a written explanation <br> that simply states the <br> procedures used) and <br> some conceptual <br> explanation given | Correct answer with a <br> complete and logical <br> conceptual explanation, <br> written in a clear and <br> well-organized way |
| Or Done | Incomplete work or <br> incorrect answer and <br> some conceptual <br> explanation given | Or | Incorrect answer (for <br> example, due to a minor <br> computational error) <br> with complete <br> conceptual explanation |

## Reviewing Student Work

- Use the rubric to look at your own student work.
-Share with your table
-What might you revise?
- We will put up student work for a Gallery Walk as you return from break.


## Reflection Question \#1

Using Your Yellow Evaluation Sheet:

- Fold paper in half
- Writing Prompt \#1 What has been most useful for helping you understand math common core this year?


## Creating a Unit of Study

- Standards Interpretation -Enduring Understandings -Knowledge and Application
- Guiding Questions
- Assessments
- Lesson Sequence
- Lesson Planning


## Standards Interpretation

## Grade 6

## Ratios and Proportional Reasoning

6.RP.1,2,3

Understand ratio concepts and use ratio reasoning to solve problems.
Take out and review:

- Standards - 6.RP.1,2,3
- "Understanding the Content Standards Matrix" from Session 3

Standards Interpretation
Enduring Understandings：
Your posters from Session 3 had these＂Big Ideas／Enduring Understandings＂
Ratios 率 Proportional relationships 6 華 7 grade －Applying ratios $\ddagger$ proportions in eventhay examples ie．calculating tips，\％，mpg，taxes，Fdiscounst． （ $1 B-$ ID exchange rates in currency）measurement in sos． －Understanding，distinguishing ratios vs rats．．．ratios are used when shits are the same rates when units are dissimilar

Sacramento City Unified School District

Putting Children First

## Conceptual Development



Standards Interpretation
Knowledge and Application
Your posters from Session 3 had these ideas for "Knowledge and Application" .Tape Diagrams.

0 Finding mint rates

- Use precise largama "for every," "for each," "per
- Double Number Lina.
- Use of mathematical

Vocabulary.

* Easier to understand the relationship between 2 quantities in a ratio when it's been compared for every I unit.


## Guiding Questions

## These questions will guide student inquiry:

- These are thought provoking questions that recur as students progress through their learning of this topic.
- These are framed to provoke and sustain student interest and inquiry.
- These do not yield a single answer, but produce different plausible responses.

Wiggins and McTighe Understanding by Design

Sacramento City Unified School District
Putting Children First

## Break

## 10 minutes

## Assessments

## "Try On" the assessments

Formative Interim Assessments (Mid-Unit Checks):

- MARS - 6 ${ }^{\text {th }}$ grade 2002 "Grandpa's Knitting"
- MARS - $6^{\text {th }}$ grade 2001 "Cans of Kola"

Post Assessment (Culminating Task)
SBAC MAT.06.PT.4.BDBRC.A. 280 Claim 4 "Bead Bracelet"

Sacramento City Unified School District

## Types of Lessons

What types of lessons support students conceptual understanding of ratios?
E.g.: "You-We-I" (Phil Daro's Video)

## Lesson Sequence

## Example

## Lesson 1: Introduction to ratios

Students will know...

- A ratio compares two related quantities
- Ratios can be represented in multiple formats including for each, per, to, each, $\% .1 / 5$, etc.

Students will be able to...

- Use ratio and rate language to describe the relationship between two quantities


## Teacher Post-Assessment

## For the Math Common Core grant:

- Make your code (same as Session 1): The first 2 letters of your mother's maiden name and one more than your birth date (day only)
Example Maiden name: Gold
Birthday: March 24, 1974
Code $=\mathbf{G O 2 5}$

Sacramento City Unified School District
Putting Children First

## Lunch

## 1 hour

## Lesson Planning

- In small groups, create a complete lesson plan that fits in the lesson sequence.
- Use the "Lesson Planning Guide" to identify
A. the focus of your lesson,
B. the evidence of Math Practices $\mathrm{I}, 4$, and/or 6, and
C. the learning experiences that provide for rigor.


## District Website

## Download the Lesson Planning Guide

Go to www.scusd.edu/common-core >Professional Development Dates and Materials
> Mathematics Dates and Materials
> Focus or Target
> Today's Date

## Lesson Planning Guide

## A. Focus and Coherence

## B. Evidence of Math Practices

C. Learning Experiences

## Guidelines for Saving Your Lesson Plan

To save your Lesson Plan document:

- Use the flash drive provided
- Open the $6^{\text {th }}$ grade folder
- Save with file name 6.RP.Lesson\#


## Ex: 6.RP.lesson2A

Sacramento City Unified School District

## Presentations

Share parts of your lesson with the group:

- Focus of the lesson
- Warm-up
- Formative Assessment


## Reflection Question \#2

Using Your Yellow Evaluation:
A. What support would you like to continue your learning of Common Core Math next school year?

## or

B. Reflect on the CC Math learning this year and complete the following sentence stems:
"I used to think...." and "Now I think..."

## District Website

- Find these units of study on our district website at


## www.scusd.edu/common-core

- They will be available by June $14^{\text {th }}$


## Summer Institute

## Sign up for the summer institute:

> Grades 6-8
> June $24-28$ $\$ 500$ stipend

Sacramento City Unified School District
Putting Children First

## Celebration/Evaluation

## Please complete your evaluation

Thank you!!!

