

Welcome Back!

C²S² Mathematics

Grades 3-5 Session 2



Agenda

- I. Welcome
- II. Warm-Up
- III. Evidence of SMPs 1, 4, and 6
- IV. Analyzing Student Work

- V. Trying on the Math
- VI. Instructional Shifts

- VII. Instructional Shifts continued
- VIII. Lesson Planning
- IX. Evaluation/Reflection



Design Methodology

Standards Interpretation

Revision of Task & Instructional Plan

Expected Evidence of Student Learning

Student Work Examination

Text-based Discussion (Research)

Task & Instructional Plan

Model Construction (Trying on the Work)



Evidence of SMPs

SMPs

#1: Making Sense of Problems and Persevere in Solving Them

#6: Attending to Precision

Think of an Exemplary Student Response that Provides Evidence for Math Practice 1

Is
$$\frac{7}{8}$$
 $\frac{8}{9}$? Explain your reasoning







- Work in Pairs or Triads
- Look at the Provided Student Work Samples Complete the "Evidence Recording" Template
- **Create Two Piles:**
 - 1. Samples that *Have* Evidence of SMP 1, 4, or 6
 - 2. Samples that *Don't Have* Evidence of SMP 1, 4 or 6



- Examining <u>Your</u> Student Work
- Work in Pairs or Triads
 Complete the "Evidence Recording"
 Template



Putting Children Fir

- Gallery Walk
 Place Your 1-2 Pieces of Student Work (with the Post-Its) on the Wall
- As You are Walking, Take Post-Its Write Questions and Comments

Break Time

10 Minutes



Trying On The Math

Adding Fractions with Like Denominators

Instructional Shifts in Action

 Focus: What is the enduring mathematical understanding from this lesson?

(Share as a Table/Whole Group)



Instructional Shifts in Action

 Coherence: If students can understand adding fractions with like denominators, how does that help them when they get to adding fractions with unlike denominators? (Share as a Table/Whole Group)



Instructional Shifts in Action

 Rigor (Fluency, Deep Understanding, Application, Dual Intensity): What did the teacher do to allow students to gain an understanding of adding fractions?

(Share as a Table/Whole Group)

- Use the Enhanced Lesson Planning Guide
- Complete Section Am[(ess)4(on)] THTBTLf{



Lunch

1 Hour

Read Shift: Focus

Write 2-3 Key





Instructional Shifts

Read Shift: Coherence

- Write 2-3 Key Ideas
- Write Down What A Teacher's Shift in Coherence Looks Like in the Classroom
- Whole-Group Discussion:

In Relation to the Prompt for "Coherence" on your "Shifts in Action" Worksheet, What New Understanding Do You Have?



Instructional Shifts

Read Shift: Rigor (Fluency, Deep Understanding, Application, Dual Intensity)

- Write 2-3 Key Ideas
- Write Down What A Teacher's Shift in Rigor Looks Like in the Classroom
- Whole-Group Discussion:

In Relation to the Prompt for "Rigor" on your "Shifts in Action" Worksheet, What New **Understanding Do You Have?**



Answer Getting vs. Learning Mathematics

USA:

 How can I teach my kids to get the answer to this problem?

High Performing Countries:

 How can I use this problem to teach the mathematics of this unit?



Teaching at the Speed of Learning

- More Time per Concept
- More Time per Problem
- More Time per Student Talking
- = LESS Math Problems per Lesson

[Phil Daro]

Lesson Planning Part B

- Complete Section B of the Lesson Planning Guide
- Be Prepared to Share Your Work
- Share Your Expected Evidence on a Half-Sheet of Paper
 - -Turn It In

Lesson Planning Part C

- Complete Section C of the Lesson Planning Guide
- Be Prepared to Share Your Work

Reflection"

Please Complete the Evaluation Form

Thank you!