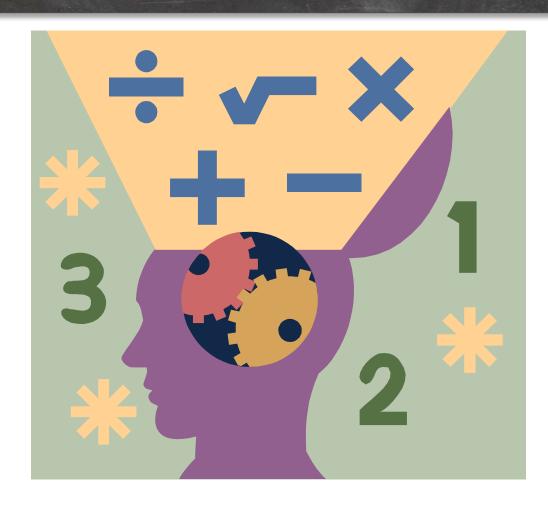


Math Common Core Summer Institute

Grades 3-5 **Day 3** – Welcome



Conceptual Development





Reflection

On a piece of yellow paper folded in half:

What types of errors/misconceptions do you anticipate your students having within your grade level standards?



Standards Interpretation

- Read <u>your grade level</u> in the Content Standards
 - Gr 3 Number and Operation in Base Ten Gr 4/5 – Number and Operation– Fractions

Read The Progressions for Common Core
 Gr 3 – Number and Operation in Base Ten
 Gr 4/5 – Number and Operation – Fractions



Standards Interpretation

Silent Sustained Reading Time

 If you would like to discuss with your neighbors as you read, please excuse yourselves to The Bistro



Standards Interpretation

As you read, make notes of:

- What will students need to know?
- What will students need to be able to do?

Lunch 1 hour

When you return you will be in separate rooms by grade level



Find your Unit of Study with Guiding Questions



Enduring Understanding(s):

Students will understand that...

- These are specific inferences based on big ideas that have lasting value beyond the classroom.
- They are full-sentence statements that describe specifically what students will understand about the topic, and allow them to transfer their learning to authentic performance tasks.



Essential Questions: These questions will guide student inquiry.

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



Knowledge:

Students will understand/know...

 What key knowledge and concepts will students acquire as a result of this unit?



Application: Students will be able to...

 Lower Level: Required grade-level fluencies (word recognition, math facts, computational skills, etc.)

 Higher Level: Students will be able to apply their understanding to authentic problem solving



Useful Resources

(also Suggested Homework)

- NCTM's Essential Understanding
- Van de Walle's Teaching Student Centered Mathematics
- The Internet



Chart Talk

Fold a piece of paper into fourths and label the quadrants with.

- Enduring Understanding
- Essential Questions
- Knowledge
- Application

Brainstorm



Chart Talk

Silently:

- Add to the charts around the room
- Ask questions on the chart
- Make comments on the chart



Chart Talk Consensus Building

- Come up with your top three entries for Enduring Understanding or Essential Questions
- You may, add to, edit or revise what is on your chart
- Be prepared to present your final choices to the whole group



Chart Talk Consensus Building

In your group choose a:

- Facilitator
- Recorder
- Timekeeper



Chart Talk Consensus Building

Present your **top three** Enduring Understandings or Essential Questions

Card Sorting Activity

- 1. Take out the pink and green cards.
 - Match the corresponding pink card to the green card.
 - Leave these cards laid out.
- 2. Take out the <u>purple</u> cards next.
 - Place the purple cards next to the corresponding pink and green cards.
- 3. Do the same with the yellow cards.
- 4. Please fill in any blank cards with the correct information.



Card Sorting Activity

- When you are finished, please discuss how you might make extensions and/or modifications to this task if needed.
- How does this task address student misconceptions and further student understanding?



Reflection

On the other half of your yellow piece of paper:

- What are the advantages of a sorting activity?
- How does it encourage students to exemplify the SMPs?



Have a great afternoon!

See you tomorrow at 8:30am!

Suggested homework –

Teaching Student Centered Mathematics – Chapter 1