Instructional Shifts-Coherence

Kindergarten



Why Common Core?

Initiated by the National Governors Association (NGA) and Council of Chief State School Officers (CCSSO) with the following design principles:

- Result in College and Career Readiness
- Based on solid research and practice evidence
- Fewer, higher and clearer



The CCSS Requires Three Shifts in Mathematics

- Focus: Focus strongly where the standards focus.
- 2. Coherence: *Think* across grades, and *link* to major topics
- **3. Rigor:** In major topics, pursue *conceptual* **understanding,** procedural skill and *fluency,* and *application*



Coherence Across and Within Grades

- It's about math making sense.
- The power and elegance of math comes out through carefully laid progressions and connections within grades.







Looking For Coherence Within Kindergarten

Decompose numbers less than or equal to 10 into pairs in more than one way, e.g., by using objects or drawings and record each decomposition by a drawing or equation (e.g., 5=2+3 and 5=4+1).

K.OA.3

What learning needs to occur before K.OA.3?



CCSS Evidence

- Know the number names and the count sequence.
- Count to tell the number of objects.
- Compare numbers.
- Understand addition as putting together and adding to, and understand subtraction as taking apart and taking from.



Looking for Coherence Across Grades

Coherence is an important design element of the standards.

"The Standards are not so much built from topics as they are woven out of progressions."

Structure is the Standards, Publishers' Criteria for Mathematics, Appendix



Coherence Card Activity

Activity: Place the standards of each color under the appropriate grade (K-8).

- Determine a "theme" for your color.
- No grade has two of the same color card.
- Some "themes" that have only a few cards might represent consecutive grades and some may not.
- Read each card in it's entirety to help determine placement.
- Do not check your Standards until you and your colleagues agree on the final product.
- Discuss horizontal and vertical observations with your partners.



Coherence Card Activity

What horizontal and vertical observations did you make?



https://www.teachingchannel.org/videos/tea ching-math-ccss?fd=1

Start at 4:10. Stop at 5:53



Shift Two: Coherence Think across grades, and link to major topics within grades.

Question One:

"Name one topic that links from Kindergarten to First Grade and then to Second Grade."



Shift Two: Coherence Think across grades, and link to major topics within grades.

Question Two:

"What are two things teachers can do to learn about vertical alignment in the Common Core State Standards?"





