The Common Core Learning Standards

A Glimpse into Teaching and Learning
New Paltz Central School District

Motivational Video:

Audri and his Rube Goldberg Monster Trap Machine

via thekidsshouldseethis.com

Click the link below to watch the video:

http://thekidshouldseethis.com/post/19233660519

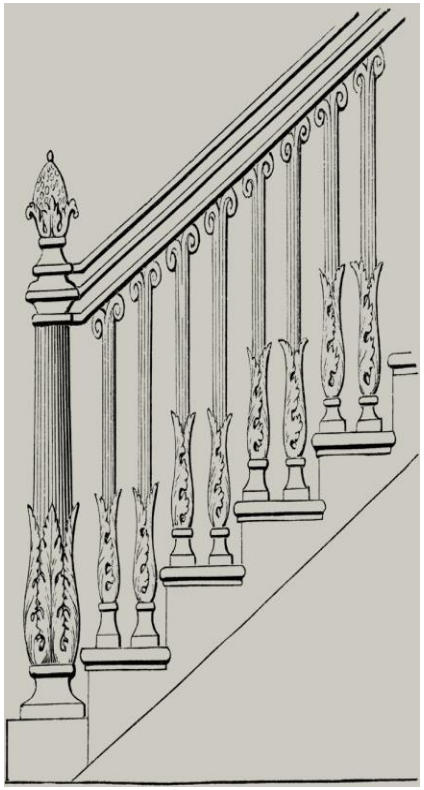
Dan Meyer – Math Class Needs a Makeover

Common Core in the Classroom

- Constructivist Approach
- Student Engagement
- 21st Century Learning

Progression of Learning

Standards remain the same, but the expectations deepen each year through the end of high school



A Staircase of Learning

Let's Take a look…

Common Core State Standards: ELA

Go to Page 19 and 20: Reading Literature. Follow standard 9 from Kindergarten to Grade 5. You will note the increase in complexity and expectation.

Learning Shifts

Text-based Evidence; Precise Vocabulary; Cogent Arguments…

- Finding specific details in the text
- Asking and answering questions about details in the text
- Refering to specific evidence from the text to support statements, claims, and thinking
- Quote and analyze textual evidence (gr. 5 and beyond)
- Evaluate the meaning of unfamiliar words and author's purpose
- Use text-based evidence from one or more texts to support a statement or argument
- Determine evidence that is uncertain or unclear and warrants further study

Learning Shifts

Academic and Content Vocabulary…

- Words that are key to gaining knowledge and understanding about a topic from texts
- Words that are key to writing about a topic
- Academic words that are found across the content areas and are a key to learning- they may have different meanings in different content areas (illustrate, discriminate)
- Words and phrases that are key to understanding relationships (as a result of, following, despite)
- Precise words, that are domain specific, and key to understanding

Learning Shifts

Reading for Deep Understanding…

Evaluate…

- Specific words or phrases an author uses to make a point
- The way words and phrases are put together to build ideas
- Patterns of ideas and sentences as they form the text's structure
- Ideas that are implied
- Theme and perspective

Learning Shifts

Reading and Writing across Disciplines…

- Reading and writing standards needed to deeply understand and respond to texts/media/experiences in all content areas
- Articulating the same standards as they apply to different disciplines
- Using technology to acquire, analyze, organize and present knowledge
- Comparing, analyzing, integrating information and ideas from sources
- Researching to build and present knowledge

Text Complexity

The Common Core Standards' Model of Text Complexity

Qualitative dimensions of text complexity, such as levels of meaning, structure, language conventionality and clarity, and knowledge demands

Quantitative measures of text complexity, such as word frequency and sentence length, which are typically measured by computer software

The task associated with the reading

Learning Shifts

Text Complexity…

- Do the words, sentences or paragraphs have different layers of meaning?
- Do the ideas, points-of-view, perspectives, time or place change throughout the text?
- Are many ideas implied?
- Are there many content-related vocabulary words?
- Does the author use irony, figurative language, words that mean abstract ideas?
- Are there two or more central ideas or themes?
- Do I need to refer to specific background knowledge, ideas, or other texts to understand this text?

Overall Shifts in ELA/Literacy

Shift 1	Balancing Informational & Literary Text Students read a true balance of informational and literary texts
Shift 2	Knowledge in the Disciplines Students build knowledge about the world (domains/ content areas) through text
Shift 3	Staircase of Complexity
Shift 4	Text-based Answers Students engage in rich and rigorous evidence based conversations about text
Shift 5	Writing from Sources Writing emphasizes the use of evidence from sources to inform or make an argument
Shift 6	Academic Vocabulary Students constantly build the transferable vocabulary they need to access grade level complex texts

Common Core Learning Standards
Mathematics

Shift: Mathematical Practices

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning.

Shifts in Mathematics…

Shift	Purpose
Focus	Teachers deepen the scope of instruction. They do so in order to focus deeply on conceptual understanding
Coherence	Learning is connected across grades so that students can build new understanding onto foundations built the previous year
Application	Students are expected to use math and choose the appropriate concept for application even when they are not prompted to do so

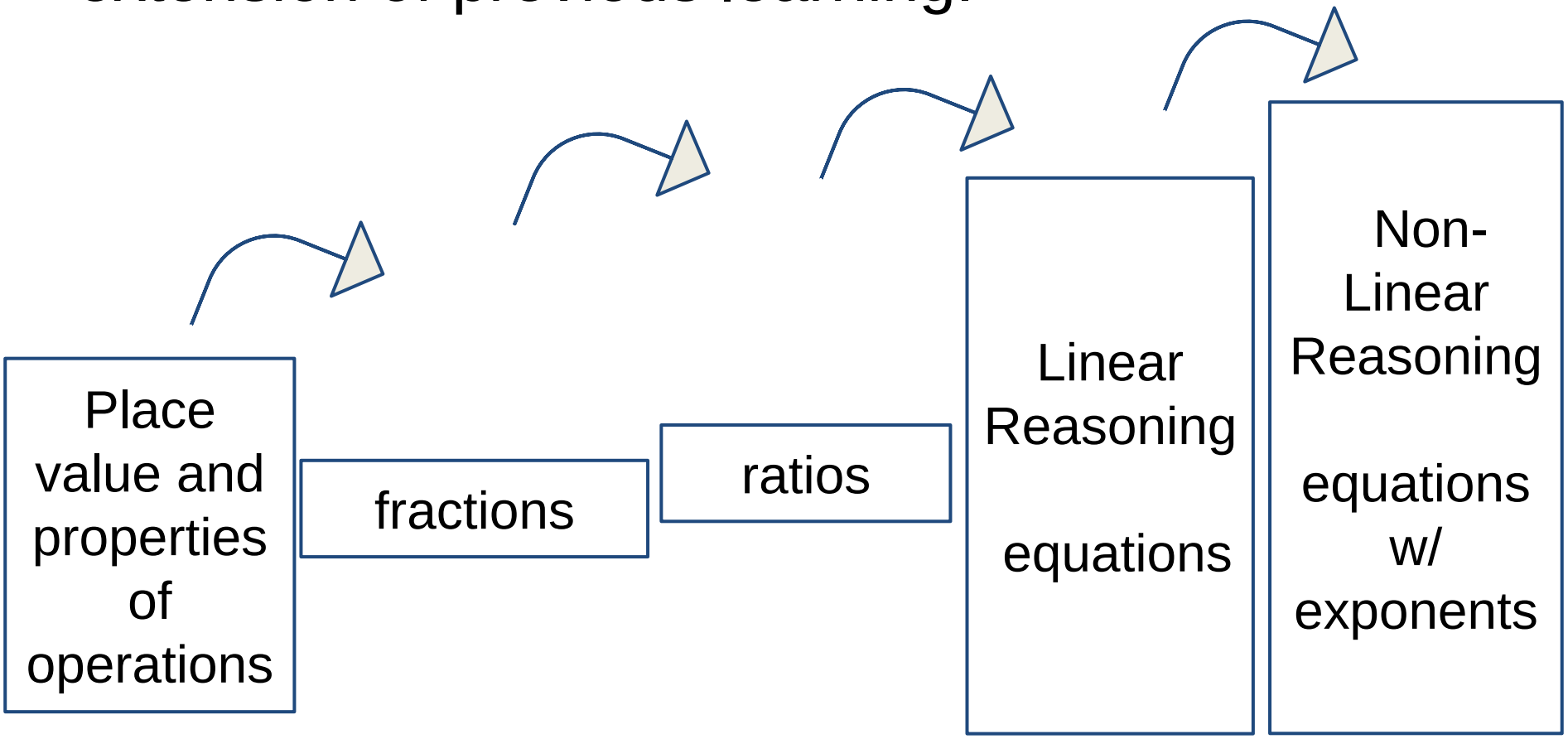
Let's Take a Look…

Common Core State Standards: Mathematics

Go to Page 13. Scroll to the bottom to review the Mathematical Practices. Scroll to Page 14 et al. to review standards for Grade 1. You will note fewer topics but much detail for each topic. Noteworthy: Fluency is required for math facts within 20, but understanding is required for math facts within 100.

Learning Shift

Each Standard is not a new event, but an extension of previous learning.



Learning Shift…

CRA: Three-step instructional strategy

- Concrete "doing" Stage

  Chips, base-ten blocks, cubes, pattern blocks, fraction bars, geometric figures

- Representational "seeing" Stage

  Drawing pictures; using circles, dots, tallies, graphs and charts

- Abstract "symbolic" Stage

  Symbolic operational symbols

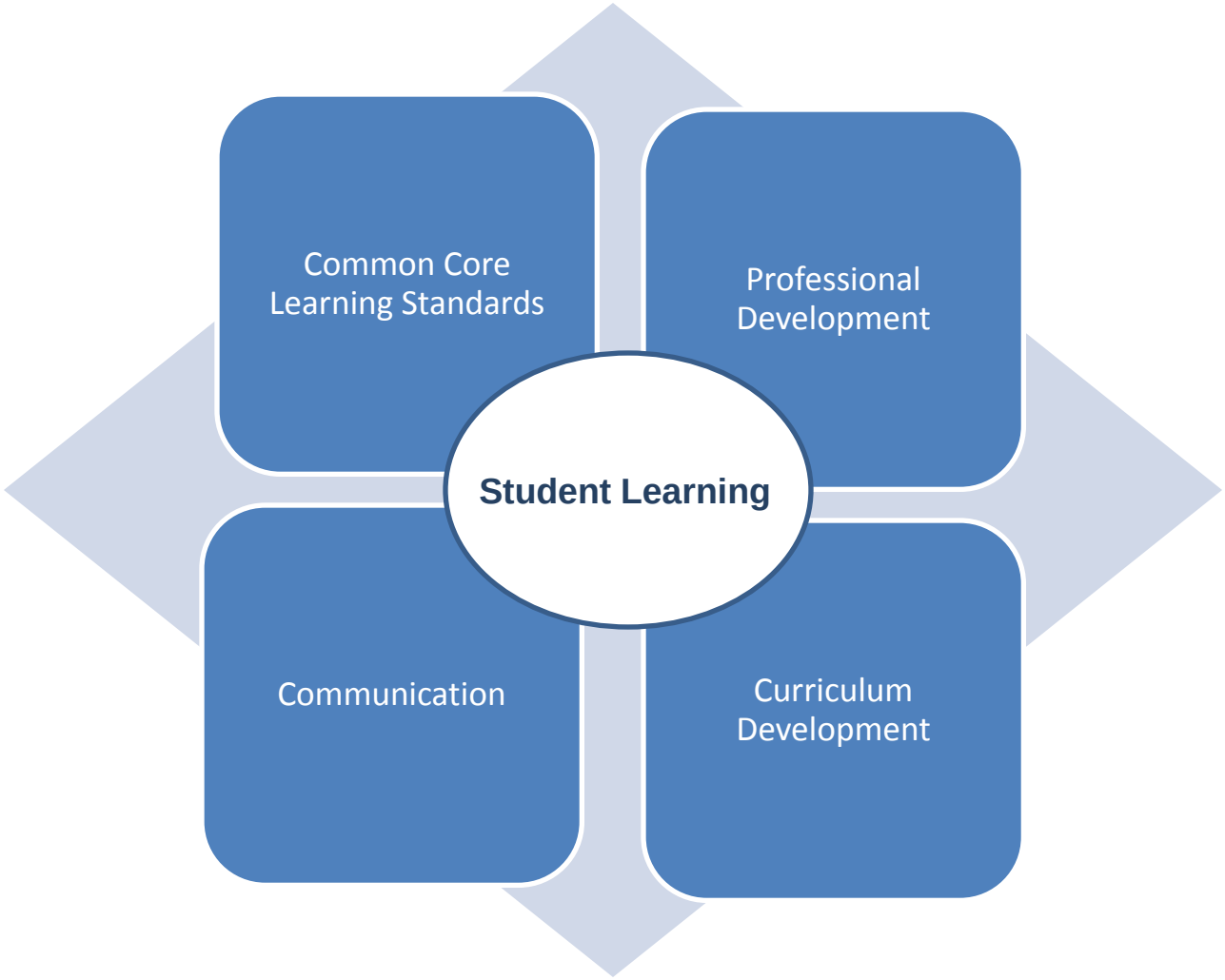
Some Concerns

- Implementation Time
- Associated with high stakes testing
- Parent connection
- Scripted curriculum modules

Our Response

- Professional Development
- Curriculum Development
- Communication Channels

Putting It All Together



How can you be a partner in your child's education? Shifts for Parents: ELA

Shift	Partnership
Read and know the features of Non-fiction materials	Supply more non-fiction texts and read non-fiction texts with your child…have fun with it
Read Science and Social Studies to learn about the world	Supply series of text on non-fiction that explain; discuss non-fiction ideas
Discuss reading using evidence; become scholars; create arguments and make judgments	Talk about text; Ask for evidence in everyday discussions and disagreements
Making arguments in writing; compare multiple texts and write well	Encourage writing at home; write books together; encourage detail
Academic Vocabulary; Language Power	Read to your children, talk to your children, sing to your children

How can you be a partner in your child's education?
Shifts for Parents: Mathematics

Shift	Partnership
Learn concepts; depth not breadth	Spend time with your child understanding math concepts; Ask your child's teacher about his/her progress
Keep building on skills grade after grade	Know your child's areas of needs; Work with your child's teacher to provide experiences to close gaps
Speed and Accuracy	Spend time practicing problems
Know it and do it! Understand, talk, and prove!	Notice if your child really knows why the answer is why? Ask your child to explain reasoning
Apply in real world situations	Ask your child to do the math that comes up in your daily lives
Think Fast and Solve Problems; know core math and apply to real world fast!	Make sure your child is practicing math facts; make sure your child is applying these facts to real world