Common Core Aligned Instruction in Math

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Session Goals for Today

 To better understand math expectations outlined in the Common Core Standards

 To understand the methods and purpose for using various mathematical strategies and instructional approaches

To share the school's vision for math at PS 198

Let's Do Some Math!

What do each of the given problems require a mathematician to do?

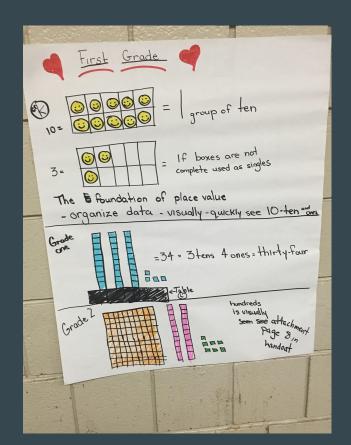
Standards for Mathematical Practice

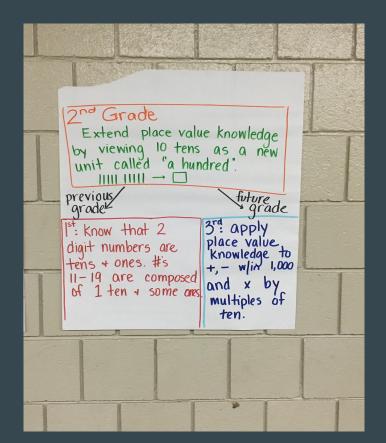
- Make sense of problems and persevere in solving them.
- Reason abstractly and quantitatively.
- Construct viable arguments and critique the reasoning of others.
- Model with mathematics.
- Use appropriate tools strategically.
- Attend to precision.
- Look for and make use of structure.
- Look for and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

Standards for Mathematical Content

- Counting and Cardinality
- Operations and Algebraic Thinking
- Number and Operations in Base Ten
- Number and Operations—Fractions
- Measurement and Data
- Geometry

How Does A Standard Grow From Grade to Grade?





What Curricula Do We Use to Address the Standards?

Go Math:

- Frequent assessments, including Beginning/Middle/End of Year, Prerequisite skills, mid unit assessments
- Models a variety of strategies and approaches to solving problems.

Supplemental Resources:

- Exemplars!
- Engage NY
- Context for Learning
- Continental Math
- Illustrative Mathematics
- Additional teacher created materials

Supporting Children At Home

- Emphasize:
 - fluency of basic math facts through games
 - going deeper-- through conversation about strategies and approaches to problem solving
 - o real life applications of math
 - o providing "brain teasers" and logic tasks

Questions?