5th Grade math common core planning

Which standard seems like the most difficult? Number fractions, algebraic thinking/operations

Need:

PD on multiplication/division with decimals using models

What is the standard? Traditional, x multiplied by y

Which metric units

Which shapes?

What about rectangles as attributes?

Improper fraction to proper (mixed #)

Simplest form?

?benchmark fraction to decimal)

Operations and algebraic thinking:

* Order of operations (understand which one comes first, ()[]
* Understand the language – vocab
* Analyze patterns and relationships
* Ordered pairs/coordinate pairs (2 equations)

Number – Base Ten

* Value of place (10x or 1/10)
* Multiplying a number by power of 10
  + Exponents
* Read/write/compare decimals to the thousandths
* Understanding rounding decimals to any place
* Fluently multiply multi digit numbers to whole numbers 2 digits divided into 4 digits – using models.

Measurement & Data

* Convert within a system w/a purpose
* Line plots (connecting 1.p.w/fractions
* Volume – what is it, measuring it, using cubes, centimeters, inches, feet, improvised
* Multiplication
* Volume of 2 parts put together

Geometry

* Graph coordinate grid – 1st quadrant
* 2D shapes-attributes and classify

Number Fractions

* + and – with unlike denominators (wide open)
* Fractions as a division problem
* Fraction times whole (modeling)
* Fraction times fraction (modeling)
* Scaling
* Divide unit fraction by counting # (1/3 divided by 4)

Resources:

* Dry erase boards with grids
* Life sized version (shower curtain?)
* Blocks (soma cubes)
* Clear grids
* Kinesthetic math resources
* Literature connections
* Math field trip – relevant
* Tools for measuring capacity, mass
* Shapes/blocks
* VandeWalle shapes/varied shapes
* Kid created posters

Ideas for math vocab:

* 3 column notes with a picture/definition/word/examples
* Model – use it all the time
* Word walls – hanging vocab around the room
* Students using correct vocabulary – no excuse words

Non-negotiables

Operations and Alebriac thinking:

Apply order of operations

Algorithms within order of operation

Number base ten:

Rounding decimals

Place value to the thousandths

Measurement & Data:

Convert numbers with a purpose

Volume – understanding

Geometry:

Shape attributes