Operations and Algebraic Thinking:

* Multiply and divide within 100
* ? (11x9)?
* Determining the unknown 12=\_x4
* Using properties
* From memory – product of 2 -1 digit numbers
* Patterning (esp. multiplication chart) – explain why – making sense

Number/Base Ten

* Reasonableness/logic
* Rounding to 10 or 100
* Multiples of 10
* Add or subtract within 1000

Fractions

* Unit fractions
* Fractions on a number line
* Parts of a whole
* Equivalent fractions
* Whole numbers as fractions
* Comparing fractions
  + Same numerator
  + Same denominator
  + Model for +/- or symbols (<,>,=)

Measurement & Data

* The easiest to connect to social studies and science
* Time – minute
* Volume & mass (G, KG, L, mL) (metric system – what are we using, why are we using it)
* Graphing (connects to social studies and science)
* Area (array) as a model of multiplication and division
* Perimeter (why is it square units in area, why is it linear units in perimeter)

Geometry

* Attributes of plane shapes (especially quadrilaterals? Comparing angles? Just quads? Which attributes? And how far?)
  + Triangle
  + Partition shapes

Most difficult for teachers or students?

* Geometry (not a fan of subject), measurement (hard for kids), time

Resources we need:

Place value blocks

Mass measurement kit

Graph paper

Balances

Clocks

Non-negotiables:

* Multiplication/division within 100
* Determine the unknown
* Patterning
* Rounding to 10 or 100
* Add and subtract w/in 100
* Reasonableness/logic
* Parts of a whole
* Fractions on a number line
* Unit fractions
* Time
* Graphing
* Attributes of plane shapes