CCSS Math Grade 3 Standards Conceptual Flow Map

*conceptual flow map is a working draft and subject to revisions throughout the year

Unit/Estimated Dates	Major Concept	Standards
Unit 1 **Number Operations and Base Ten** **Dates** August - September	Use place value understanding and properties of operations to perform multi-digit arithmetic	3 NBT.1-3 Use place value understanding to round whole numbers to the nearest 10 or 100. Fluently add and subtract within 1000 using strategies and algorithms based on place value, properties of operations and/or the relationship between addition and subtraction.
Unit 2 **Operations and Algebraic Thinking** **Dates** October - January	Represent and solve problems involving multiplication and division.	3.OA.1-9 Interpret products of whole numbers. Understand properties of multiplication and the relationship between multiplication and division. Multiply and divide within 100. Solve problems involving the four operations, and identify and explain patterns in arithmetic. Multiply one-digit numbers by multiples of 10 in the range 10-90 using strategies based on place

		value and properties of operations.
Unit 3 **Number and Operations-** **Fractions** **Dates** February	Develop understanding of fractions as numbers	3NF.1 3NF.2 3NF.3 Understand a fraction 1/*b* as the quantity formed by 1 part when a whole is partitioned into b equal parts (unit fractions) and *a/b* as the quantity formed by *a* parts of size 1/*b*. Understand and represent fractions on a number line. Explain equivalence of fractions in special cases, and compare fractions by reasoning about their size.

Unit 4 **Measurement and Data** **Dates** March-May	Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects. Use perimeter and area to solve problems.	3MD.1-4 3MD.5-8 Tell, write, and solve problems involving time to nearest minute; and measure time intervals. Measure and estimate liquid volumes and masses of objects (ml, l, g, kg) and solve problems using these units. Draw scaled picture and bar graphs to represent data; solve problems represented in these graphs. Generate measurement data using rulers to nearest halves and fourths of an inch. Understand concepts of area and relate area to multiplication and addition. Recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
Unit 5 **Geometry** **Dates** May-June	Reason with shapes and their attributes.	3G.1-2 Understand that shapes in different categories may share attributes. Recognize categories of quadrilaterals. Partition shapes into parts with equal areas. Express the area of each part as a unit fraction of the whole.