Quarter 1 Math Benchmark-4th Grade

***The Georgia Standards of Excellence 4th Grade Math curriculum overview: (pages 6-17)
https://www.georgiastandards.org/Georgia-Standards/Frameworks/4th-Math-Grade-Level-Overview.pdf

***All study guides and parent letters from quarter 1 are posted on Buford Academy's 4th Grade Math website:
http://4thgradewolves.weebly.com/

***There are many online resources and games on the math website and in your child's Goggle Classroom.

Place Value

- Read and write multi-digit whole numbers using base-ten numerals, number names, and expanded form. Compare two multi-digit numbers based on meanings of the digits in each place, using $>$, $=$, and $<$ symbols to record the results of comparisons.
- Use place value understanding to round multi-digit whole numbers to any place.

Addition and Subtraction

- Fluently add and subtract multi-digit whole numbers using the standard algorithm.

Multiplication & Division

- Interpret a multiplication equation as a comparison e.g., interpret $35 = 5 \times 7$ as a statement that 35 is 5 times as many as 7 and 7 times as many as 5.
- Prime and composite numbers
- Factors and multiples
- Multiply a whole number of up to four digits by a one-digit whole number. (Estimate)
- Multiply or divide to solve word problems involving multiplicative comparison. Use drawings and equations with a symbol or letter for the unknown number to represent the problem, distinguishing multiplicative comparison from additive comparison.

Problem Solving

- Solve multistep word problems with whole numbers and having whole number answers using the four operations, including problems in which remainders must be interpreted. Represent these problems using equations with a symbol or letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.

Patterns

- Generate a number or shape pattern that follows a given rule. Identify apparent features of the pattern that were not explicit in the rule itself. Explain informally why the pattern will continue to develop in this way.

IXL Lessons
- A-2 Convert Between Standard and Expanded Form
- A-4 Convert between place values
- A-12 Rounding
- A-15 Compare Numbers
- B-1 Add numbers up to 1 million
- B-2 Add numbers word problems
- C-1 Subtract numbers up to one million
- C-2 Subtract numbers word problems
- D-13 Estimating Products
- D-25 Multiply numbers ending in zero
- D 26 Multiply numbers ending in zero word problems
- L-2-L-5 Patterns