Dear Parent,

I am pleased to tell you that we will be using a website called IXL in our classroom this year. IXL is a comprehensive learning program offering unlimited math and language arts practice problems in thousands of skills—all of which are aligned to New York Standards. One of the best things about IXL is that your child can access it from home, so you have a chance to see your child's progress!

To get your child started on your home computer, please follow these easy steps:

1. Go to https://www.IXL.com/signin/riverton

2. Enter your child's username and password in the upper right corner and click the button to sign in. (Note: If the username and password are not listed below, they will be provided separately.)

   Username_____

   Password__riverton_____

3. Click on the name of the subject (math) you'd like to work on at the top of the page and navigate to your child's grade level.

4. Please complete the following standards listed below by September 1st, 2017.

   For Grade 6:

Whole numbers

- **A.1** Place values in whole numbers
- **A.2** Word names for numbers
- **A.3** Roman numerals
- **A.4** Add and subtract whole numbers
- **A.5** Add and subtract whole numbers: word problems

Multiplication

- **B.1** Multiply whole numbers
- **B.2** Multiply whole numbers: word problems
- **B.3** Multiply whole numbers with four or more digits
- **B.4** Multiply numbers ending in zeroes
- **B.5** Multiply numbers ending in zeroes: word problems
- **B.6** Multiply three or more numbers
- **B.7** Multiply three or more numbers: word problems
- **B.8** Estimate products

Integers

- **M.1** Understanding integers
- **M.2** Absolute value and opposite integers
- **M.3** Integers on number lines
- **M.4** Graph integers on horizontal and vertical number lines
- **M.5** Compare and order integers

Operations with integers

- **N.1** Add integers using counters
- **N.2** Add integers
- **N.3** Subtract integers using counters
- **N.4** Subtract integers
- **N.5** Add and subtract integers: find the sign
- **N.6** Add and subtract integers: input/output tables
- **N.7** Add three or more integers
- **N.8** Multiply integers: find the sign
- **N.9** Multiply integers
- **N.10** Divide integers: find the sign

One-variable equations

- **Y.1** Does x satisfy an equation?
- **Y.2** Which x satisfies an equation?
- **Y.3** Write an equation from words
- **Y.4** Model and solve equations using algebra tiles
- **Y.5** Write and solve equations that represent diagrams
- **Y.6** Solve one-step equations with whole numbers
- **Y.7** Solve one-step equations with decimals, fractions, and mixed numbers
- **Y.8** Solve one-step equations: word problems
- **Y.9** Solve two-step equations
- **Y.10** Solve equations involving like terms
- **Y.11** Solve equations involving integers

One-variable inequalities

- **Z.1** Solutions to inequalities
- **Z.2** Write inequalities from number lines

Grade 6 continuing…

One-variable inequalities

- **Z.1** Solutions to inequalities
- **Z.2** Write inequalities from number lines
- **Z.3** Graph inequalities on number lines
- **Z.4** Solve one-step inequalities
- **Z.5** Graph solutions to one-step inequalities

Two-variable equations

- **AA.1** Does (x, y) satisfy an equation?
- **AA.2** Identify independent and dependent variables
- **AA.3** Find a value using two-variable equations
- **AA.4** Solve word problems involving two-variable equations
- **AA.5** Complete a table for a two-variable relationship
- **AA.6** Write a two-variable equation
- **AA.7** Identify the graph of an equation
- **AA.8** Graph a two-variable equation
- **AA.9** Interpret a graph: word problems
- **AA.10** Write an equation from a graph using a table

Number theory

- **E.1** Convert between standard and scientific notation
- **E.2** Compare numbers written in scientific notation
- **E.3** Prime or composite
- **E.4** Identify factors
- **E.5** Prime factorization
- **E.6** Prime factorization with exponents
- **E.7** Greatest common factor
- **E.8** Least common multiple
- **E.9** GCF and LCM: word problems

Decimals

- **F.1** What decimal number is illustrated?
- **F.2** Decimal place values
- **F.3** Word names for decimal numbers
- **F.4** Convert decimals to mixed numbers
- **F.5** Put decimal numbers in order
- **F.6** Inequalities with decimals
- **F.7** Round decimals
- **F.8** Round whole numbers and decimals: find the missing digit
- **F.9** Decimal number lines

Add and subtract decimals

- **G.1** Add and subtract decimal numbers
- **G.2** Add and subtract decimals: word problems
- **G.3** Estimate sums and differences of decimals
- **G.4** Maps with decimal distances

Mixed operations

- **O.1** Add, subtract, multiply, or divide two whole numbers
- **O.2** Add, subtract, multiply, or divide two whole numbers: word problems
- **O.3** Evaluate numerical expressions involving whole numbers
- **O.4** Add, subtract, multiply, or divide two decimals
- **O.5** Add, subtract, multiply, or divide two decimals: word problems
- **O.6** Perform multiple operations with decimals
- **O.7** Add, subtract, multiply, or divide two fractions
- **O.8** Add, subtract, multiply, or divide two fractions: word problems
- **O.9** Perform multiple operations with fractions
- **O.10** Add, subtract, multiply, or divide two integers
- **O.11** Perform multiple operations with integers

Multiply and divide decimals

- **H.1** Multiply decimals
- **H.2** Estimate products of decimal numbers
- **H.3** Inequalities with decimal multiplication
- **H.4** Divide decimals by whole numbers
- **H.5** Divide decimals by whole numbers: word problems
- **H.6** Multiply and divide decimals by powers of ten
- **H.7** Division with decimal quotients
- **H.8** Inequalities with decimal division

Division

- **C.1** Divisibility rules
- **C.2** Division patterns with zeroes
- **C.3** Divide numbers ending in zeroes: word problems
- **C.4** Estimate quotients
- **C.5** Divide whole numbers - 2-digit divisors
- **C.6** Divide whole numbers - 3-digit divisors

Exponents and square roots

- **D.1** Write multiplication expressions using exponents
- **D.2** Evaluate exponents
- **D.3** Find the missing exponent or base
- **D.4** Exponents with decimal bases
- **D.5** Exponents with fractional bases
- **D.6** Understanding negative exponents
- **D.7** Evaluate negative exponents
- **D.8** Advanced exponents
- **D.9** Half-life and population doubling
- **D.10** Square roots of perfect squares
- **D.11** Estimate square roots

Ratios, proportions, and percents

- **R.1** Write a ratio to describe objects in a picture
- **R.2** Ratio tables
- **R.3** Ratios: word problems
- **R.4** Equivalent ratios
- **R.5** Equivalent ratios: word problems
- **R.6** Compare ratios: word problems
- **R.7** Proportions
- **R.8** Unit rates and equivalent rates
- **R.9** Unit rates: word problems
- **R.10** Scale drawings
- **R.11** Convert between percents, fractions, and decimals
- **R.12** Compare percents to each other and to fractions
- **R.13** Compare percents and fractions: word problems
- **R.14** Percents of numbers and money amounts
- **R.15** Percents of numbers: word problems
- **R.16** Percents of numbers - with fractional and decimal percents
- **R.17** Find what percent one number is of another
- **R.18** Find what percent one number is of another: word problems

Add and subtract fractions

- **J.1** Add and subtract fractions with like denominators
- **J.2** Add and subtract fractions with like denominators: word problems
- **J.3** Add and subtract fractions with unlike denominators
- **J.4** Add and subtract fractions with unlike denominators: word problems
- **J.5** Inequalities with addition and subtraction of like and unlike fractions
- **J.6** Add and subtract mixed numbers
- **J.7** Add and subtract mixed numbers: word problems
- **J.8** Estimate sums and differences of mixed numbers
- **J.9** Maps with fractional distances

Multiply fractions

- **K.1** Fractions of whole numbers I
- **K.2** Fractions of whole numbers II
- **K.3** Fractions of a number: word problems
- **K.4** Estimate products of fractions and whole numbers
- **K.5** Multiply two fractions using models
- **K.6** Multiply two fractions
- **K.7** Multiply fractions: word problems
- **K.8** Multiply three or more fractions and whole numbers
- **K.9** Estimate products of fractions, whole numbers, and mixed numbers
- **K.10** Multiply mixed numbers and whole numbers
- **K.11** Multiply mixed numbers
- **K.12** Multiply mixed numbers: word problems
- **K.13** Multiply three or more mixed numbers, fractions, and/or whole numbers

Divide fractions

- **L.1** Divide whole numbers by unit fractions using models
- **L.2** Reciprocals
- **L.3** Divide whole numbers and unit fractions
- **L.4** Divide fractions by whole numbers in recipes
- **L.5** Divide fractions
- **L.6** Estimate quotients when dividing mixed numbers
- **L.7** Divide fractions and mixed numbers
- **L.8** Divide fractions and mixed numbers: word problems

Consumer math

- **U.1** Which is the better coupon?
- **U.2** Unit prices: which is the better buy?
- **U.3** Unit prices with fractions and decimals
- **U.4** Unit prices with customary unit conversions
- **U.5** Sale prices
- **U.6** Sale prices: find the original price
- **U.7** Percents - calculate tax, tip, mark-up, and more
- **U.8** Simple interest

Time

- **V.1** Elapsed time
- **V.2** Time units
- **V.3** Find start and end times

Coordinate plane

- **W.1** Objects on a coordinate plane
- **W.2** Graph points on a coordinate plane
- **W.3** Quadrants
- **W.4** Coordinate planes as maps
- **W.5** Distance between two points
- **W.6** Follow directions on a coordinate plane

Expressions and properties

- **X.1** Write variable expressions
- **X.2** Write variable expressions: word problems
- **X.3** Evaluate variable expressions with whole numbers
- **X.4** Evaluate multi-variable expressions
- **X.5** Evaluate variable expressions with decimals, fractions, and mixed numbers
- **X.6** Identify terms and coefficients
- **X.7** Properties of addition
- **X.8** Properties of multiplication
- **X.9** Distributive property
- **X.10** Solve for a variable using properties of multiplication
- **X.11** Write equivalent expressions using properties
- **X.12** Add and subtract like terms
- **X.13** Identify equivalent expressions

For extra credit, the scholars can begin working on the ***seventh grade standards.*** Also, this summer assignment will be posted on the school website.

In addition to making practice exciting, IXL is designed to help your child learn at his or her own pace. The program is adaptive and will adjust based on your child's demonstrated understanding of the material. All of your child's results will be saved, so you can monitor his or her progress anytime by clicking on the *Analytics* tab at the top of the page. For on-the-go practice, you can download IXL's free tablet apps for iPad, Android, or Kindle and sign in with your child's username and password.

I hope you'll encourage your son or daughter to use IXL regularly. Here's to a year of working together to make learning fun for your child!

Sincerely,
Ms. Napolitano