MATH

Winthrop Middle School
60 Payson Street
Winthrop, MA 02152

Dear WMS Math Parents,

It has been a pleasure working with you and your children in math this year. Our students continue to make great progress in math and this is in no small part due to your support and hard work during the school year. We hope you have a great summer and are asking your family to make **IXL.com** a part of your summer experiences.

Recent studies show that student performance in math dips significantly after taking two months off. To help alleviate this problem, we are asking students to complete assignments on IXL.com. These assignments are aligned with the Massachusetts Frameworks and emphasize the important topics or focus areas recommended by the Department of Elementary and Secondary Education. These assignments are review work from each grade level respectively, and hopefully will reinforce learning from the school year.

IXL can be challenging and the problems provide explanation after each incorrect problem, should your child need it. There is also a Not Ready feature that provides practice on prerequisite skills.

We have also differentiated for individual students by providing specific assignments designed to help them make progress in mathematics. Whether your child has grade level assignments or an individualized program, it has been assigned and approved by your child's math teacher.

We hope that you will encourage your child to work on IXL regularly, rather than waiting until the end of August. We are asking that students work on 1-2 assignments per week, which will keep their skills sharp throughout the summer. We are asking that summer work be completed by **Sunday, August 24**.

The school building is open and often busy for the summer. Hours will be made available for students to use Chromebooks, if you do not have computer or internet access at home. Please contact Mr. Curley for available days and hours.

If you have any questions about Summer Math, please feel free to contact Principal Curley
bcurley@winthrop.k12.ma.us

Thanks again for all that you do to support your child's learning. It is the children and families of Winthrop that make education in Winthrop so special and worthwhile.

Have a great summer!

Your Middle School Math Teachers

✳ Entering Grade 9

IXL.COM - 8th Grade (Letter J) Standards for <u>Incoming Algebra 1 Students</u>

- ❑ **A.8** Classify numbers
- ❑ **C.5** Add and subtract integers: word problems
- ❑ **D.4** Convert between decimals and fractions or mixed numbers
- ❑ **F.13** Identify equivalent expressions involving exponents
- ❑ **F.16** Estimate positive and negative square roots
- ❑ **G.1** Convert between standard and scientific notation
- ❑ **I.2** Write equations for proportional relationships from tables
- ❑ **I.6** Identify proportional relationships
- ❑ **M.1** Multi-step word problems
- ❑ **R.4** Pythagorean theorem: word problems
- ❑ **V.12** Multiply using the distributive property
- ❑ **W.13** Solve equations: word problems
- ❑ **W.7** Solve two-step equations
- ❑ **W.11** Solve equations: mixed review
- ❑ **DD.9** Scatter plots: line of best fit
- ❑ **Y.1** Find the slope of a graph
- ❑ **Y.2** Find the slope from two points
- ❑ **Y.6** Graph a line from an equation in slope-intercept form
- ❑ **Z.1** Identify functions
- ❑ **AA.8** Solve a system of equations using substitution

IXL.COM – Algebra 1 (Letter K) Standards for <u>Incoming Algebra 2 Students</u>

- ❑ **C.6** Solve proportions: word problem
- ❑ **I.8** Rearrange multi-variable equations
- ❑ **J.10** Solve linear equations: word problems
- ❑ **J.11** Solve linear equations: mixed review
- ❑ **V.9** Identify equivalent expressions involving exponents
- ❑ **K.10** Solve advanced linear inequalities
- ❑ **K.14** Solve compound inequalities
- ❑ **K.15** Graph solutions to compound inequalities
- ❑ **L.1** Solve absolute value equations
- ❑ **BB.10** Solve a quadratic equation using the quadratic formula
- ❑ **O.1** Word problems: mixed review
- ❑ **Q.2** Domain and range of relations
- ❑ **Q.7** Evaluate a function
- ❑ **AA.8** Factor polynomials
- ❑ **S.8** Slope-intercept form: write an equation
- ❑ **S.17** Standard form: graph an equation
- ❑ **S.20** Point-slope form: graph an equation
- ❑ **U.14** Solve a system of equations using any method
- ❑ **X.5** Exponential growth and decay: word problems
- ❑ **EE.2** Simplify radical expressions with variables
- ❑ **BB.4** Graph quadratic functions in vertex form