



Baldwin Union Free School District

960 Hastings Street ♦ Baldwin, NY 11510-4798

www.baldwinschools.org



Dear Parent/Guardian & Student:

In order to help your child stay sharp in math skills this summer, the Mathematics Departments at the Middle and High School have assigned a summer math program.

IXL is a comprehensive, Common Core standards-aligned math program offering unlimited practice in thousands of skills. One of the best things about IXL is that it is a web-based program so you may use it from your computer at home or on a smart phone or tablet while at the park!

Student Expectations:

1. Each student must **get a smart score of 80 for each skill assigned**. The skills assigned are listed on the last page of this letter. You do not need to proceed with a certain skill after you reach a smart score of 80.
2. Upon completion, the students will earn up to **10 extra bonus points** on the first unit exam.
3. Enclosed please find step by step instructions to log on and use IXL, the skills that are assigned, and additional resources. While we encourage all of our students to rest and relax during the summer months, it is also important to take time to reinforce and maintain academic skills gained throughout the school year.
4. Students in grades 7-12 that will be reviewing Algebra 1, Geometry, and Algebra 2 will need to use a graphing calculator. If you do not own a graphing calculator an online graphing calculator can be found using the following links:

<https://www.meta-calculator.com/>

<https://www.geogebra.org/>

5. Please take a moment to review this brief video on how to navigate the IXL instructional application by going to <https://vimeo.com/951652526/952731da56?share=copy> or by scanning the QR code below:

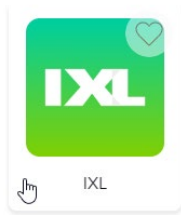


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How to get started:

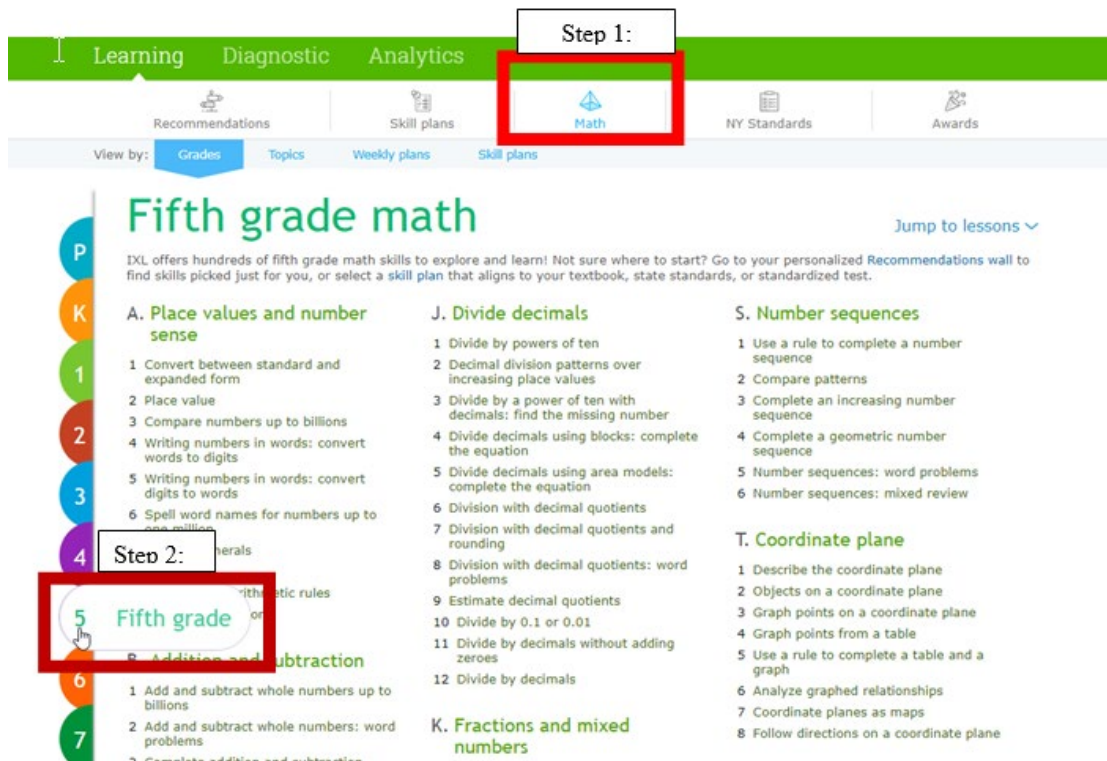
Step A: Log onto your Clever account. If your child needs support on how to access their Clever account, visit <https://www.baldwinschools.org/elearning>.

Step B: Find and click on the IXL icon.



Step C. When you click on the IXL icon you will be brought to your IXL account. After signing in:

1. Click on the math icon in the banner (see Step 1 below).
2. Click on the appropriate grade level colored tab to find organized skills for the course you took in **2023-24** (see Step 2 below).



Please find IXL user guides, assistance with IXL technical issues and account support by navigating to <https://www.ixl.com/help-center/>

Brief instructional videos are included with each skill. You can view the instructional video simply by selecting watch video after you select the skill you want to practice. (see the screen capture below). Before completing the IXL skills, you may watch the videos below to help you review.

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Feel free to go beyond the skills listed above and practice as many skills as you want this summer. Good luck and have fun!

Students going into Geometry and Intermediate Geometry should review these skills:

Click on 7th Grade tab

- AA.1 & AA.4: Three-dimensional figures
- FF.1 & FF.2: Similar and congruence figures
- FF.4: Side lengths and angle measures of similar figures

Click on 8th Grade tab

- T.1: Pythagorean theorem
- S.8 & S.7: Side lengths and angel measures of similar figures & triangles

Click on Algebra 1 tab

- A.8: Square roots
- M.18, M.16, & M.15: Rate of change
- E.2 & E.3: Convert rates and measurements
- U.1, U.3 & U.8: Geometric sequences
- X.2, X.7 & X.9: Factoring
- I.1 & K.4: Coordinate plane
- N.8 & N.9: Linear Functions
- Z.1- Z.6: Solving Quadratic equations
- EE.1 – EE.7: Radical Expression

Students going into Algebra 2 and Advanced Algebra should review these skills:

Click on Algebra 1 tab:

- U.1: Identify arithmetic and geometric sequences
- U.12: Number sequences: mixed review
- F.16: Solve advanced linear equations
- M.2: Domain and range of relations
- M.6: Find values using function graphs
- M.7: Evaluate a function
- K.2: Find the slope from two points

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O.2: Solve a system of equations by graphing
O.8: Solve a system of equations using substitution
O.10: Solve a system of equations using elimination
W.1.1: Multiply polynomials
Q.5: Special right triangles – Geometry Tab
K.2: Find the slope from two points
R.3: Negative exponents
M.4: Identify functions
V.8: Exponential growth and decay: word problems
X.9: Factor polynomials
X.7: Factor by grouping
Z.6: Solve a quadratic equation using the quadratic formula
Z.10: Solve a system of linear and quadratic equations
GG.3: Multiply and Divide radical expressions
Z.5: Solve a quadratic equation by completing the square
II.2: Mean, median, mode, and range
JJ.6: Find the equation of a regression line

Students going into Pre-Calculus should review these skills:

Click on Algebra 2 tab:

D.1: Domain and range
D.3: Evaluate functions
D.9: Find the slope of a linear function
D.13: Average rate of change
J.1 to J-7: Factoring unit
K.2: Characteristics of quadratic functions
V.5: Convert equations of circles from general to standard form
K.9: Complete the square
L.4: Divide polynomials using long division
L.5: Match polynomials and graphs
M.14: Solve radical equations
O.7: Solve rational equations
K.1 – K.16: Families of functions
S.12: Evaluate logarithms: mixed review
T.9: Solve exponential equations using natural logarithms
Z.2 Special right triangles

Students going into Calculus should review these skills:

Click on Algebra 2 tab:

J.3: Factor quadratics
J.5: Factor by grouping
J.6: Factor sums and differences of cubes
O.1: Rational functions: asymptotes and excluded values
N.5 & N.6: Simplify rational expressions
S.4 & S.5: Evaluate Log and Natural Logarithms

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Click on Pre-calculus tab

A.1: Domain and range

CC.1 & CC.2: Average rate of change

C.5: Solve a quadratic equation using square roots

D.13: Factor sums and differences of cubes

E.1: Rational functions: asymptotes and excluded values

F.5 – F.8: Logarithms

F.19: Exponential growth and decay, word problems

H.4: Evaluate rational exponents

M.6 -M.7: Trigonometric ratios

R.2: Complex conjugates