

# SUMMER ASSIGNMENTS

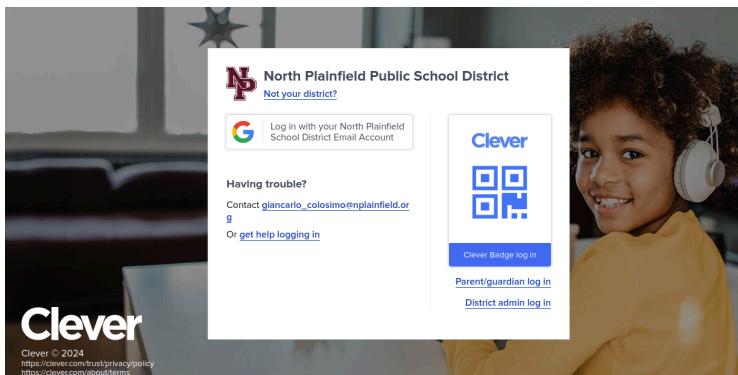


IXL is a program that we use for reinforcement of math standards in grades 6-12 that has an unlimited number of practice questions for each topic and/or standard.

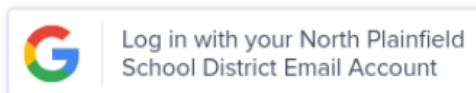
For this **highly recommended optional** summer assignment, teachers have selected the top five most important topics to practice throughout the summer in order to be successful in the upcoming mathematics course. The goal for each student should be to obtain a **Smart Score of 80** on recommended topics below. Practicing math skills throughout the summer is highly recommended for students to retain learning!

## Directions for logging on to IXL:

- Open a browser on your school Chromebook to log in via Clever; you will see the home screen below.



- Click to log in:



- Click on 'District Links' on the left side and scroll down to select the IXL icon.



IXL

- *If you do not log in using the above directions, your scores will not be saved in IXL. IXL gives 10 free questions to guest users so it is essential that each student log in via Clever and their school Gmail!*

If you have any issues logging into the system, please contact Lauren Heckendorf at , Supervisor of Mathematics, at [lauren\\_heckendorf@nplainfield.org](mailto:lauren_heckendorf@nplainfield.org).

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### Entering Algebra 1

| IXL Number | Topic                                                          |
|------------|----------------------------------------------------------------|
| B4         | <a href="#">Add and Subtract Rational Numbers</a>              |
| B5         | <a href="#">Multiply and Divide Rational Numbers</a>           |
| G1         | <a href="#">Coordinate Plane Review</a>                        |
| H2         | <a href="#">Distributive Property</a>                          |
| H3         | <a href="#">Simplify Variable Expressions Using Properties</a> |

### Entering Geometry

| IXL Number | Topic                                                        |
|------------|--------------------------------------------------------------|
| 7.FW       | <a href="#">Identify Hypotheses and Conclusions</a>          |
| JXD        | <a href="#">Solve Two-Step Equations</a>                     |
| Alg 1 J.6  | <a href="#">Solve Equations with Variables on Both Sides</a> |
| WBX        | <a href="#">Line Symmetry</a>                                |
| ERP        | <a href="#">Rotational Symmetry</a>                          |

### Entering Algebra 2

| IXL Number | Topic                                                        |
|------------|--------------------------------------------------------------|
| Alg 1 U.2  | <a href="#">Solve a System of Equations by Graphing</a>      |
| Alg 1 A.6  | <a href="#">Square Roots</a>                                 |
| Alg 1 S.4  | <a href="#">Calculate the Slope from Two Points</a>          |
| Alg1 S.12  | <a href="#">Linear Equations: Solve for <math>y</math></a>   |
| Alg 1 J.6  | <a href="#">Solve Equations with Variables on Both Sides</a> |

**Entering Trigonometry or Precalculus (except AP Precalculus)**

| IXL Number | Topic                                                          | Video Link ( <i>watch the video if you need help re-learning the topic</i> ) |
|------------|----------------------------------------------------------------|------------------------------------------------------------------------------|
| D.1        | <a href="#">Domain and Range</a>                               | <a href="#">Khan Academy</a>                                                 |
| D.2        | <a href="#">Identifying Functions</a>                          | <a href="#">What are Functions?</a>                                          |
| D. 10      | <a href="#">Write the Equation of a Linear Function</a>        | Linear functions: <a href="#">Part 1</a> , <a href="#">Part 2</a>            |
| J.3        | <a href="#">Factoring Quadratics</a>                           | Factoring - X method: <a href="#">Part 1</a> , <a href="#">Part 2</a>        |
| K.1        | <a href="#">Characteristics of Quadratic Functions: Graphs</a> | <a href="#">Quadratic Functions</a>                                          |

**Students entering AP Precalculus, Calculus, and/or Statistics will have a mandatory assignment that will be shared via email to students enrolled in these courses via Google Classroom and our website.**