

# Cliffside Park Middle School and High School Math Summer Assignment Instructions

Dear Parents and Students,

I am pleased to tell you that we will be using a website called IXL in our classrooms this year. IXL is a comprehensive learning program offering unlimited math practice problems in thousands of skills—all of which are aligned to the Common Core and the New Jersey Student Learning 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/cliffsidepark>
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: Their first initial + Last name**

**Password: Their password for this school year or abc (lowercase)**

**Example:** Brenda Morales *with password June1999 would be:*

Userid: bmorales

Password: June1999

3. Click on the math class your child will be in next school year (September 2018).
4. Please refer to the list of topics listed on the school website that your child needs to complete. You can place your mouse over any skill to see a sample question and click on the link to begin. A grade of 80% is needed in skill before proceeding to the next.
5. **Please note that assignments cannot be started prior to July 5.**

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.

If you need a login or forgot your password please email me at [mclarke@cliffsidepark.edu](mailto:mclarke@cliffsidepark.edu). I hope you'll encourage your son or daughter to use IXL regularly. Here's to preventing the summer slide and starting the new school year productively! See Next page for skill assignment.

Sincerely,

Marqueritha Clarke  
Mathematics and Technology Supervisor  
Cliffside Park School District

# SKILL Assignments for Each Grade level:

## Entering Seventh grade:

### Number theory

A.1 Prime or composite

A.2 Prime factorization

A.3 Multiplicative inverses

A.4 Divisibility rules

A.5 Greatest common factor

A.6 Least common multiple

A.7 GCF and LCM: word problems

A.8 Scientific notation

A.9 Compare numbers written in scientific notation

A.10 Classify numbers

### Integers

B.1 Understanding integers

B.2 Integers on number lines

B.3 Graph integers on horizontal and vertical number lines

B.4 Absolute value and opposite integers

B.5 Compare and order integers

B.6 Integer inequalities with absolute values

### Decimals

D.1 Decimals Review

D.2 Compare and Order Decimals

D.3 Decimal Number Lines

D.4 Round Decimals

## **Entering Eighth grade:**

### **Number theory**

**A.1** Factors

**A.2** Divisibility rules

**A.3** Prime or composite

**A.4** Prime factorization

**A.5** Greatest common factor

**A.6** Least common multiple

**A.7** GCF and LCM: word problems

**A.8** Classify numbers

### **Integers**

**B.1** Integers on number lines

**B.2** Graph integers on horizontal and vertical number lines

**B.3** Absolute value and opposite integers

**B.4** Compare and order integers

**B.5** Integer inequalities with absolute values

**C.1** Integer addition and subtraction rules

**C.2** Add and subtract integers using counters

**C.3** Add and subtract integers

**C.4** Add and subtract three or more integers

**C.5** Add and subtract integers: word problems

**C.6** Integer multiplication and division rules

**C.7** Multiply and divide integers

**C.8** Evaluate numerical expressions involving integers

# Entering 9th Grade:

## Numbers

A.1 Classify numbers

A.2 Compare and order rational numbers

A.3 Absolute value and opposites

A.4 Number lines

A.7 Square roots

A.8 Cube roots

## Operations

B.1 Add, subtract, multiply, and divide integers

B.2 Order of operations with integers

B.3 Evaluate variable expressions involving integers

B.4 Add and subtract rational numbers

B.5 Multiply and divide rational numbers

B.6 Order of operations with rational numbers

B.7 Evaluate variable expressions involving rational numbers

H.1 Properties of addition and multiplication

H.2 Distributive property

H.3 Simplify variable expressions using properties

## **Students Entering Algebra 1 (Middle School)**

B.1 Add, subtract, multiply, and divide integers

B.6 Evaluate numerical expressions involving rational numbers

G.1 Coordinate plane review

I.3 Identify equivalent linear expressions

I.4 Write variable equations

I.5 Does x satisfy the equation?

I.6 Which x satisfies the equation?

I.7 Solve equations using order of operations

J.11 Solve linear equations: mixed review

S.2 Find the slope of a graph

S.3 Find the slope from two points

S.6 Slope-intercept form: graph an equation

## **Entering Geometry:**

### **Algebra review**

**A.1** Ratios and proportions

**A.2** Scale maps and drawings

**A.3** Properties of exponents

**A.4** Simplify radical expressions

**A.5** Write variable expressions

**A.6** Solve linear equations

**A.7** Solve linear inequalities

**A.8** Solve systems of linear equations

**A.9** Solve quadratic equations

## **Entering Algebra 2:**

### **Variable expressions**

**A.1** Evaluate variable expressions involving integers

**A.2** Evaluate variable expressions involving rational numbers

**A.3** Simplify variable expressions using properties

### **Equations**

**B.1** Solve linear equations

**B.2** Solve linear equations: word problems