



Wooster Summer Work 2022
Middle School Mathematics
Algebra 1

Dear Algebra 1 Students and Parents,

This year, students enrolled in Algebra 1 will complete summer math work online. The learning activities listed on the following pages are to be accessed through the [IXL.com](https://www.ixl.com) website. Be sure to log in with your username and password to track your progress and receive credit for your work.

Approach the learning activities in the order of your choosing. **Work on each activity for 20 minutes or until you reach 90% mastery.** If, for example, you reach 90% mastery after 12 minutes, you can move onto a new topic.

If a skill feels particularly challenging or unfamiliar, rather than remaining totally stumped for 20 minutes, see if you can find a related video on **Khan Academy**. Or, use the “**learn with an example**” feature embedded within each skill. Then, attempt to solve 3 or 4 problems.

It will take you about **9 hours** to complete this work. We encourage you to break this work into manageable parts. Try to tackle three activities per week. To keep track of your progress, check off each activity upon completion.

Your math teacher will have the ability to view your activity log and can see how many problems you attempt and how long you work. This is how Wooster School will track your progress over the course of the summer and develop a better understanding of your mathematical background.

Good luck!

Algebra 1 Summer Math Work Checklist

A.4 Prime Factorization

<https://www.ixl.com/math/grade-8/prime-factorization>

A.5 Greatest Common Factor

<https://www.ixl.com/math/grade-8/greatest-common-factor>

B.3 Absolute Value and Opposite Integers

<https://www.ixl.com/math/grade-8/absolute-value-and-opposite-integers>

B.4 Compare and Order Integers

<https://www.ixl.com/math/grade-8/compare-and-order-integers>

C.3 Add and Subtract Integers

<https://www.ixl.com/math/grade-8/add-and-subtract-integers>

C.7 Multiply and Divide Integers

<https://www.ixl.com/math/grade-8/multiply-and-divide-integers>

C.8 Evaluate Expressions Involving Integers

<https://www.ixl.com/math/grade-8/evaluate-expressions-involving-integers>

D.2 Evaluate Exponents

<https://www.ixl.com/math/grade-8/evaluate-exponents>

D.4 Evaluate Exponents with Negative Bases

<https://www.ixl.com/math/grade-8/exponents-with-negative-bases>

D.12 Evaluate Expressions Involving Exponents

<https://www.ixl.com/math/grade-8/evaluate-expressions-involving-exponents>

G.3 Round Decimals and Mixed Numbers

<https://www.ixl.com/math/grade-8/round-decimals-and-mixed-numbers>

G.5 Convert Between Decimals and Fractions of Mixed Numbers

<https://www.ixl.com/math/grade-8/convert-between-decimals-and-fractions-or-mixed-numbers>

H.2 Add and Subtract Fractions

<https://www.ixl.com/math/grade-8/add-and-subtract-rational-numbers>

H.5 Multiply and Divide Fractions

<https://www.ixl.com/math/grade-8/multiply-and-divide-rational-numbers>

P.1 Coordinate Plane Review

<https://www.ixl.com/math/grade-8/coordinate-plane-review>

X.2 Write Variable Expressions

<https://www.ixl.com/math/grade-8/write-variable-expressions>

X.5 Evaluate One-Variable Expressions

<https://www.ixl.com/math/grade-8/evaluate-one-variable-expressions>

X.7 Evaluate Absolute Value Expressions

<https://www.ixl.com/math/grade-8/evaluate-absolute-value-expressions>

X.9 Evaluate Rational Expressions

<https://www.ixl.com/math/grade-8/evaluate-rational-expressions>

X.13 Multiply Using the Distributive Property

<https://www.ixl.com/math/grade-8/multiply-using-the-distributive-property>

X.15 Add and Subtract Like Terms

<https://www.ixl.com/math/grade-8/add-and-subtract-like-terms>

EE.4 Interpret Line Graphs

<https://www.ixl.com/math/grade-8/interpret-line-graphs>

EE.2 Interpret Bar Graphs

<https://www.ixl.com/math/grade-8/interpret-bar-graphs>

FF.1 Calculate Mean, Median, Mode, and Range

<https://www.ixl.com/math/grade-8/calculate-mean-median-mode-and-range>