



Wooster Summer Work 2024
Upper School Mathematics
Geometry
Ms. Pica | Ms. Clark

Dear Geometry Students,

This year, students enrolled in Geometry 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 **10 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.

If you run into any questions or confusion, please email the course teacher at maureen.pica@woosterschool.org or michele.clark@woosterschool.org.

Good luck!

Geometry Summer Math Work Checklist

H.2 Distributive property: <https://www.ixl.com/math/algebra-1/distributive-property>

I.1 Write variable expressions: <https://www.ixl.com/math/algebra-1/write-variable-expressions>

I.5 Write variable equations: <https://www.ixl.com/math/algebra-1/write-variable-equations>

J.6 Solve Equations with variables on both sides:
<https://www.ixl.com/math/algebra-1/solve-equations-with-variables-on-both-sides>

O.2 Word problems with money:
<https://www.ixl.com/math/algebra-1/word-problems-with-money>

O.4 Rate of travel: word problems:
<https://www.ixl.com/math/algebra-1/rate-of-travel-word-problems>

S.8 Write Equation in Slope-Intercept Form from a Graph:
<https://www.ixl.com/math/algebra-1/slope-intercept-form-write-an-equation-from-a-graph>

U.8 Solve a system of equations using substitution:
<https://www.ixl.com/math/algebra-1/solve-a-system-of-equations-using-substitution>

U.10 Solve a system of equations using elimination:
<https://www.ixl.com/math/algebra-1/solve-a-system-of-equations-using-elimination>

V.8 Evaluate expressions using properties of exponents:
<https://www.ixl.com/math/algebra-1/evaluate-expressions-using-properties-of-exponents>

Z.10 Multiplying polynomials: <https://www.ixl.com/math/algebra-1/multiply-polynomials>

AA.2 Factor out a monomial: <https://www.ixl.com/math/algebra-1/factor-out-a-monomial>

AA.4 Factor polynomials with lead coefficient of 1:
<https://www.ixl.com/math/algebra-1/factor-quadratics-with-leading-coefficient-1>

AA.5 Factor polynomials with lead coefficient other than 1:
<https://www.ixl.com/math/algebra-1/factor-quadratics-with-other-leading-coefficients>

BB.6 Solve a quadratic equation using square roots:
<https://www.ixl.com/math/algebra-1/solve-a-quadratic-equation-using-square-roots>

BB.7 Solve a quadratic equation using the zero product property:

<https://www.ixl.com/math/algebra-1/solve-a-quadratic-equation-using-the-zero-product-property>

BB.8 Solve a quadratic equation by factoring:

<https://www.ixl.com/math/algebra-1/solve-a-quadratic-equation-by-factoring>

BB.9 Complete the square: <https://www.ixl.com/math/algebra-1/complete-the-square>

BB.10 Solve a quadratic equation by completing the square:

<https://www.ixl.com/math/algebra-1/solve-a-quadratic-equation-by-completing-the-square>

GG.2 Simplify complex fractions:

<https://www.ixl.com/math/algebra-1/simplify-complex-fractions>

GG.4 Multiply and divide rational expressions:

<https://www.ixl.com/math/algebra-1/multiply-and-divide-rational-expressions>

GG.7 Add and subtract rational expressions:

<https://www.ixl.com/math/algebra-1/add-and-subtract-rational-expressions>