

St. Paul's Episcopal School
Algebra 1 Summer Math Work
2026 - 2027 School Year

- **You will use your IXL account from the previous school year to complete these assignments.** You can always search the names of these lessons in IXL or follow the links here/in Google Classroom.

- This will be graded as an assessment grade at the beginning of the school year. **You must complete EACH assignment to 90% (score) OR for 15 minutes (regardless of score) if you are struggling.** Do not worry about getting things wrong! You can have a low score and still get 100% on this assignment if you try. Remember: The most important thing in math is effort and an open mind. Eventually, you will get it (even if it takes years to get there)!

- I recommend keeping scratch paper, a pencil, and a calculator nearby to help you with these assignments. **Work out problems on scratch paper. Turn in this paper and the scratch paper on the first day of school. You may not be able to show work for all lessons, so just do your best!** Use a calculator to check your work as needed.

- **These 16 assignments are REQUIRED:**
 - J.1 Understanding exponents - <https://www.ixl.com/math/grade-7/understanding-exponents>

 - C.2 Evaluate powers - <https://www.ixl.com/math/grade-8/evaluate-powers>

 - K.1 Square roots of perfect squares - <https://www.ixl.com/math/grade-7/square-roots-of-perfect-squares>

 - E.2 Estimate positive square roots - <https://www.ixl.com/math/grade-8/estimate-positive-square-roots>

 - T.9 Solve two-step equations - <https://www.ixl.com/math/grade-7/solve-two-step-equations>

- M.15 Solve equations with the distributive property -
<https://www.ixl.com/math/grade-8/solve-equations-with-the-distributive-property>
- N.2 Graph inequalities on number lines -
<https://www.ixl.com/math/grade-8/graph-inequalities-on-number-lines>
- O.3 Follow directions on a coordinate plane -
<https://www.ixl.com/math/grade-8/follow-directions-on-a-coordinate-plane>
- V.4 Area and circumference of circles -
<https://www.ixl.com/math/grade-8/area-and-circumference-of-circles>
- V.6 Area and perimeter of semicircles and quarter circles -
<https://www.ixl.com/math/grade-8/area-and-perimeter-of-semicircles-and-quarter-circles>
- X.1 Find the constant of proportionality from a table -
<https://www.ixl.com/math/grade-8/find-the-constant-of-proportionality-from-a-table>
- Y.1 Find the constant of variation -
<https://www.ixl.com/math/grade-8/find-the-constant-of-variation>
- HH.4 Changes in mean, median, mode, and range -
<https://www.ixl.com/math/grade-8/changes-in-mean-median-mode-and-range>
- HH.9 Identify an outlier and describe the effect of removing it -
<https://www.ixl.com/math/grade-8/identify-an-outlier-and-describe-the-effect-of-removing-it>
- JJ.6 Compound events: find the number of outcomes -
<https://www.ixl.com/math/grade-8/compound-events-find-the-number-of-outcomes>
- JJ.8 Identify independent and dependent events -
<https://www.ixl.com/math/grade-8/identify-independent-and-dependent-events>

- You must also choose **FIVE (5) assignments in IXL you have not done before that are at the seventh-grade level OR HIGHER** that you would like to complete. Please write the names of these assignments here:

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