

St. Paul's Episcopal School
Algebra 1 Summer Math Work
2025 - 2026 School Year

- **You will use your IXL account from the previous school year to complete these assignments.** You are already grouped into a class called “8th Grade” for the remainder of the summer. I have assigned you these assignments via that group.
 - You SHOULD see these assignments assigned to you, but, if you do not, you can always search the names of these lessons in IXL.
 - **You will also see assignments that are for the students who are taking pre-Algebra instead. You DO NOT have to do any lesson assigned that is not on this list so pay close attention!!!**
- 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. You should always work out problems on scratch paper when you're doing online computer work.
- **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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