

Algebra II+

Summer Assignment Directions 2025

Algebra II+ is a course designed to prepare you for AP Calculus by building on all of the mathematical topics you have covered previously and creating a strong foundation in algebraic skills and concepts as well as encouraging problems solving and analysis skills. In particular, a strong foundation in Algebra and Geometry is necessary, along with a positive work ethic.

The summer assignment is an important first step in making sure you have a starting foundation for the study of the concepts and skills central to this course. Throughout the course, you will frequently utilize many important concepts and skills from Algebra I as such ***you will be expected to not only be proficient with your Algebra skills but to also be efficient as well.*** A thorough understanding of the material means you can not only solve the problem but that you can solve it quickly. The following assignment will help you review some essential algebraic skills you will need at the beginning of the year and help you review critical Algebra I skills.

Your work and solutions should demonstrate that you have a strong grasp of the mathematical language and should show that you use correct mathematical notation. If you have difficulty with any problem(s), be proactive by utilizing a mathematics tutor, study group, or internet tutorials (such as Khan Academy, www.khanacademy.org/math).

You are expected to:

1. Print out the summer assignment. There should be plenty of space to complete each problem. If you need additional paper, please use loose-leaf lined or graph paper.
2. Use pencil to do your work. You may use color to accent or highlight. Be very clear and neat in your presentation – this assignment will be graded. You do not need to do this assignment in one sitting. We recommend you break it up over a few days in August, based on suggestions from previous students.
3. DO NOT use a calculator to help complete the assignment.
4. Feel free to consult your Algebra I notebook as needed!
5. Staple all your work into one packet. This collection of problems should be completed **before the first** day of class. We will discuss this assignment during the first week of class. This packet will be the first graded assignment of the course.

Learn algebra well, and you will do well in all mathematics courses that follow.

See you in August!

Mr. Patrick Kennedy
pkennedy@gsgis.k12.va.us