



LAMP
HIGH SCHOOL
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Math Summer Work 2023

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Honors Geometry with Data Analysis

Purpose of Summer Work

LAMP Summer Work for students entering Honors Geometry is based on important prerequisite skills that students need before coming into the class. Major objectives in Honors Geometry involve learning to use geometric properties to solve various problems. These frequently revert to lines, linear equations, simplifying radicals, solving multistep equations, simplifying fractions, and more.

As students move up to Honors Geometry, they also need to become more mathematically literate and be open to how things they learned in algebra apply to shapes. The Summer Assignment will focus on prerequisite skills that will help ease the transition from Algebra to Geometry as the school year begins. Before the first day of school, you are expected to complete the item listed below. No knowledge or skill beyond Algebra I or Math-Accelerated 8 is required.

Turn your summer work into your Math teacher on the first day of school.

Summer Work Module

Your assignment is to complete the Geometry Power Skills Module on Deltamath. Deltamath is a math learning platform that allows you to practice various concepts and get instant feedback on your progress. To create an account, go to <https://www.deltamath.com/>, and use your school Gmail account to sign up (choose “sign-in with Google” for convenience). From there, you will need to input this class code to gain access to the assignments: **78A6-L5TP**

Note: You can also use this link to register and gain access to the class:

<https://www.deltamath.com/students?code=78A6-L5TP>

This Module is a review of prerequisite skills encouraged for you to have at the beginning of the school year coming into Geometry. Complete the assignments within the module to complete your summer work. Please bring your scratchwork from the DeltaMath Module to submit to your math teacher.

Honors Algebra II with Statistics

Purpose of Summer Work

LAMP Summer Work for students entering Honors Algebra II with Statistics is based on important prerequisite skills that students need before coming into the class. Major objectives in Honors Algebra II with Statistics involve students incorporating knowledge and skills from several mathematics content areas, leading to a deeper understanding of fundamental relationships within the discipline and building a solid foundation for further study.

Honors Algebra II with Statistics builds essential concepts necessary for students to meet their postsecondary goals (whether they pursue additional study or enter the workforce), function as effective citizens, and recognize the wonder, joy, and beauty of mathematics (NCTM, 2018). In particular, it builds foundational knowledge of algebra and functions needed for students to take the specialized courses which follow it. As students move up to Honors Algebra II with Statistics, they will need to become more mathematically literate since Algebra II is the culmination of the three years of required mathematics content and sets the stage for continued study of topics specific to the student's interests and plans beyond high school. The Summer Assignment will focus on prerequisite skills that will help ease the transition from Algebra I and Geometry to Algebra II as the school year begins. Before the first day of school, you are expected to complete the item listed below. No knowledge or skill beyond Geometry & Algebra I is required.

Turn your summer work in to your Math teacher on the first day of school.

Summer Work Module

Your assignment is to complete the Honors Algebra II Power Skills Modules on DeltaMath. DeltaMath is a math learning platform that allows you to practice various concepts and get instant feedback on your progress. To create an account, go to <https://www.deltamath.com/>, and use your school Gmail account to sign up (choose "sign-in with Google" for convenience). From there, you will need to input this class code to gain access to the assignments: **Y7JB-6S88**

Note: You can also use this link to register and gain access to the class:

<https://www.deltamath.com/students?code=Y7JB-6S88>

This Module is a review of prerequisite skills encouraged for you to have at the beginning of the school year coming into Honors Algebra II. Complete the assignments within the module to complete your summer work. Please bring your scratchwork from the DeltaMath Module to submit to your math teacher.

AP Precalculus

Purpose of Summer Work

LAMP Summer Work for students entering AP Precalculus is based on important prerequisite skills that students need before coming into the class. AP Precalculus centers on functions modeling dynamic phenomena. This research-based exploration of functions is designed to better prepare students for college-level calculus and provide grounding for other mathematics and science courses. Throughout this course, students develop and hone symbolic manipulation skills, including solving equations and manipulating expressions, for the many function types throughout the course.

Before studying precalculus, all students should develop proficiency in topics typically found in the Algebra 1-Geometry-Algebra 2 content sequence. Developing proficiency in skills and concepts related to linear and quadratic functions, especially factoring, along with gaining familiarity with the graphs of various types of functions (i.e., Linear, Quadratic, Polynomial, Absolute Value, Piecewise, Exponential, Logarithmic, Rational, Radical, Trigonometric) are instrumental to starting strong in AP Precalculus.

Summer Work Module

Your assignment is to complete the Precalculus Power Skills Module on DeltaMath. DeltaMath is a math learning platform that allows you to practice various concepts and get instant feedback on your progress. To create an account, go to <https://www.deltamath.com/>, and use your school Gmail account to sign up (choose “sign-in with Google” for convenience). From there, you will need to input this class code to gain access to the assignments: **Z8ET-6CM2**

Note: You can also use this link to register and gain access to the class:

<https://www.deltamath.com/students?code=Z8ET-6CM2>

This Module is a review of prerequisite skills encouraged for you to have at the beginning of the school year coming into AP Precalculus. Complete the assignments within the module to complete your summer work. Please bring your scratchwork from the DeltaMath Module to submit to your math teacher.

AP Calculus AB

TI-84 Graphing Calculator Skills

Skills for this part of the AP Calculus AB powerskills can be found by [following this link](#)

Standard Angles of the Unit Circle

Skills for this part of the AP Calculus AB powerskills can be found by [following this link](#)

Proportional Units

Skills for this part of the AP Calculus AB powerskills can be found by [following this link](#)

AP Calculus BC

Purpose of Summer Work

LAMP Summer Work for students entering AP Calculus BC is based on important prerequisite skills that students need before coming into the class. AP Calculus BC covers topics in AP Calculus AB and topics that would be covered in a second semester calculus course in college. Some of the extra topics covered include using calculus to answer questions about infinite series, parametric equations, vectors, and polar equations.

Completing this summer work will make going through the more difficult topics in the course much easier since your background knowledge will have less holes and the topics covered will be fresher. they progress.

Summer Work Module

Your assignment is to complete the AP Calculus BC PowerSkills Module on DeltaMath. DeltaMath is a math learning platform that allows you to practice various concepts and get instant feedback on your progress. To create an account, go to <https://www.deltamath.com/>, and use your school Gmail account to sign up (choose “sign-in with Google” for convenience). From there, you will need to input this class code to gain access to the assignments: KV2M-93BT

Note: You can also use this link to register and gain access to the class:

<https://www.deltamath.com/students?code=KV2M-93BT>

This module is a review of prerequisite skills encouraged for you to have at the beginning of the school year coming into AP Calculus BC. Complete the assignments within the module to complete your summer work.