

**West Essex Regional School District**  
**Algebra 2 CPa**  
**Mrs. Novalis' Summer Assignment 2023**

**Required materials for Algebra 2 CPa: TI-84 calculator, pencils (for all exams), colored pens/pencils for homework corrections, binder (we give a lot of handouts) and notebook (or loose leaf paper).**

You are required to complete **Delta Math** by the **FIRST DAY OF SCHOOL**

Your summer assignment will count toward homework grades. No credit will be given for assignments turned in late.

There will be assessments based on this summer assignment. The dates of the assessments will be announced prior to the quizzes.

**Algebra 2** builds on topics studied from both **Algebra 1 and Geometry**. This assignment will address several topics and skills that are expected to be **MASTERED** in any Algebra 1 course and you are required to understand prior to the start of Algebra 2. Although you will have some opportunity to get some help when school begins, if you find that you need a lot of help you should consider getting it before school begins. A list of topics and helpful websites is included on the next page.

For your summer assignment, we are using Delta Math. Please follow the directions below:

**To access your assignment:**

**Delta Math Teacher Code: 749023**

**Class: Algebra 2 Summer Packet 23 -24**

**If you already have an account on [deltamath.org](https://deltamath.org), you can add a teacher by:** Sign into your account, go to TOOLS then go to MANAGE LOGIN AND TEACHERS. Then add the teacher code: and select "**Algebra 2 Summer Packet 22-23**".

**To create an account on [deltamath.org](https://deltamath.org):**

Go to [DeltaMath.com](https://deltamath.com), click "Create Account" then type in teacher code: **749023**  
Make a username (school email) and password, type your first and last name and select "**Algebra 2 Summer Packet 23-24**" from the dropdown menu.

There are videos to accompany each topic in Delta Math (click "watch help video")

**These are the topics that are covered:**

- Solving equations in one variable
- Solving and graphing inequalities in one variable
- Finding the slope of a line and the rate of change
- Graphing linear equations in slope-intercept or standard form
- Writing linear equations
- Graphing linear inequalities in two variables
- Solving systems of linear equations
- Graphing method
  - Substitution method
  - Elimination method
- Factoring completely
- Solving quadratic equations
  - By factoring
  - By taking the square root
  - By Quadratic Formula
- Finding Vertex and Axis of Symmetry of Quadratics
- Graphing Quadratics

**Here are some websites you might find useful in completing your summer assignment.**

1. <http://www.purplemath.com/modules/index.htm> - an excellent resource for topics from pre-algebra to advanced algebra
2. <http://www.khanacademy.org/> - an expansive collection of video lessons – search for any topic!
3. <http://www.math.com/homeworkhelp/Algebra.html> - for help with solving equations, linear equations, functions, exponents, and more
4. <http://www.teacherschoice.com.au/mathematics/how-to/library.htm> - for help with factoring, the quadratic formula, systems of equations, functions, and solving equations
5. <http://www.algebrahelp.com/> - for help with basic algebra skills including linear equations, operations on polynomials, and factoring
6. <http://www.freemathhelp.com/algebra-help.html> - includes text and video lessons includes text and video lessons from an array of algebra topics including equations, inequalities, matrices, and polynomials.