Algebra II Summer Work

Email dianna.monk@acemacon.org and ramona.kenley@acemacon.org with any pressing issues, but read through the following first.

Joining the Khan Academy Class:

- Use class code NDZSARYV and your email to join the class at www.khanacademy.org/join.
  - **DO NOT** use your ace macon email address
  - If you already have an account, **add a class by going to the coaches tab on your dashboard**.
  - Your khan username should be your first and last name.
- Then, you must go to https://forms.gle/MnpmGED4ggYz3GFd7 and fill it out with your email and password, so if you get locked out of your account, we can help.

Assignments on Khan will be published on May 15th. Make sure the assignments being completed are the ones assigned on the your "Home" tab: You may have to click “View assignments due later” to see all of them. If you join the course after May 15th, you may not instantly see those assignments. That's because an ACE teacher has to assign them to you. If they do not show up in 24 hours, email the teacher above. The assignments online should match the list below.

**Part One:** Complete each of the following exercises on Khan Academy with a score of 100%. You have unlimited attempts until the first day of school @ 7:45am. Take advantage of the hints and videos provided through the website to prepare yourself for the next year of mathematics. You should see these assignments on your “Home” tab. Do not try to search these assignments out. If they have not been assigned to you, the results will not get to your teacher.

1. **Khan Assignment:** Equations with variables on both sides
2. **Khan Assignment:** Number of solutions to equations
3. **Khan Assignment:** Two-step equations word problems
4. **Khan Assignment:** Linear Systems of Equations Capstone
5. **Khan Assignment:** Systems of Equations with Elimination
6. **Khan Assignment:** Systems of Equations With Substitution
7. **Khan Assignment:** Number of solutions to a system of equations algebraically
8. **Khan Assignment:** Systems of Equations with graphing
9. **Khan Assignment:** Systems of Equations word problems
10. **Khan Assignment:** Systems of Inequalities graphs
11. **Khan Assignment:** Graph from Linear Standard Form
12. **Khan Assignment:** Graph from Slope-intercept Form
13. **Khan Assignment:** Graphs of Inequalities
14. **Khan Assignment:** Graphing linear relationships word problems
15. **Khan Assignment:** Factor Polynomials: common factor
16. **Khan Assignment:** Factor Polynomials: quadratic method
17. **Khan Assignment:** Factor quadratics by grouping
18. **Khan Assignment:** Factor polynomials: special product forms
19. **Khan Assignment:** Greatest common factor of monomials
20. **Khan Assignment:** Quadratics by factoring (intro)
21. **Khan Assignment:** Zero product property
22. **Khan Assignment:** Quadratic formula
23. **Khan Assignment:** Multiply monomials by polynomials challenge
24. **Khan Assignment:** Multiply & divide powers (integer exponents)
25. **Khan Assignment:** Exponents (basic)
26. **Khan Assignment:** Exponents with integer bases
27. **Khan Assignment:** Negative exponents
28. **Khan Assignment:** Powers of products & quotients (integer exponents)
29. **Khan Assignment:** Simplifying square roots
30. **Khan Assignment:** Simplifying square roots (variables)

**Part Two:** Must know information going into Algebra II, review all of the following:

1. Graphing Linear Equations
2. Different Forms for Linear Equations (Standard Form, Slope-Intercept Form)
3. Solving Equations (Multi-step)
4. Solving Linear Inequalities
5. Distributive Property
6. Solving Systems of Equations (Graphing, Substitution, Elimination)
7. Various Forms of Quadratic Equations (Standard Form, Vertex Form)
8. Pythagorean Theorem
9. Properties of Real Numbers
10. Representing Functions