Welcome to Algebra II ES!! 😊 This is a little fact sheet with ALL the information you need to know about what is going to happen throughout this school year.

What will we learn?

Put simply, algebra is a branch of elementary mathematics that consists of equations and manipulating expressions containing symbols, numbers, and functions. The topics we will be exploring this year are...

- Equations and Inequalities
- Linear Equations and Functions
- Systems of Linear Equations & Inequalities
- Quadratic Functions
- Polynomials & Polynomial Functions
- Powers, Roots, and Radicals
- Exponential & Logarithmic Functions
- Rational Equations and Functions
- Quadratic Relations and Conic Sections
- Probability and Statistics
- Trigonometric Ratios and Functions
- Trigonometric Graphs, Identities, and Equations

Why are we learning this information?

Not only is Algebra II the most interesting subject you will EVER learn throughout your math career, a lot of your success in other courses you might take in high school, technical school, or college depends on your understanding of algebra.

Algebra can be used to help solve many of the problems you face right now as well as later on in your life. For example, algebra can help you figure out how to move as many cars as possible through a busy intersection or how long it will take you to pass a car that is traveling ahead of you going at a certain speed.

A basic understanding of algebra is expected of literate citizens in today’s society and is needed in many occupations and fields of study including manufacturing, medicine, and psychology.

Basically, your knowledge of algebra can give you more power to solve problems and accomplish what you want in life.

If none of these reasons interests you, we must also learn algebra because a full credit of this course is required for you to receive a high school diploma.

What do I need to know about this specific class?

The class will meet _____ in room _____. I, Ms. DeSieno, will be your teacher. I highly anticipate sharing with you all the wonderful information that Algebra II encompasses. In this classroom we will bring together and formalize all the information we gain from our entire environment (home, school, and elsewhere) regarding algebra and mathematics in general. I encourage EVERYONE to speak up and share your ideas, discoveries, and problems. To ensure that everyone gets involved and that we as a class feed off of each other and our ideas, we will be doing a lot of work in partners and in small groups. There is a lot of information to cover this year, which makes it
imperative that we work together as a class so everyone can walk away at the end of the school year having gained the most amount of information as possible.

**What materials do I need?**

Unless I tell you differently, everyday you will be expected to bring:

- The course textbook. You will be assigned a book in the beginning of the year. You are responsible for maintaining the book in good condition. It will be collected at the end of the year.
- Your math binder. The binder should be divided into five sections: notes, handouts, homework, journal, and tests and quizzes. I am warning you in advance that periodically throughout the year I will collect your binders. I want to see that you are taking all the necessary notes and that you have kept all homework assignments, handouts, tests and quizzes. **MAKE SURE YOU ARE ORGANIZED AND KEEP ALL THE WORKSHEETS I GIVE YOU.**
- Calculator (TI-83 preferred)
- Pen and pencil
- SUPPLY OF GRAPH PAPER

Some units require a protractor, compass, or ruler. When this occurs, I will warn you in advance.

**What behavior and rules am I expected to follow?**

The behavior I expect of you and the rules I ask you to abide by are not unlike any other classroom. I ask that you...

- Show up to class. Attendance will be taken daily. If you are absent on any given day, it is YOUR RESPONSIBILITY to get missed notes from another classmate or myself. I will be available after school to go over missed notes with you. If you are absent the day of a quiz or test, you must see me as soon as possible to schedule a time for you to make up what you missed.
- Arrive on time with all materials and assignments completed.
- Show respect to others when they are talking by listening carefully and quietly. Respect your classmates' ideas, questions, and property.
- Pay attention, write down all the necessary notes and information, and listen carefully to all instructions.
- Help make this a positive learning environment by constructively contributing to class discussions and working quietly during study times.

Any poor behavior in the classroom will result in after school detention. If a problem persists, a referral will be sent to the office.

**What will I learn to do?**

- Understand how algebra can be used to solve problems
- Discover and invent ways on how to use algebra to address real world problems and situations
- Have confidence in your mathematical ability and sharing your results, thoughts, and ideas
- Learn how to successfully work in partner and group situations
How will I be graded?

- Homework.................................................................3 pts each
  Homework is assigned daily and will be collected at the beginning of each class. I expect assignments to be neat and complete. No frilly notebook paper edges! Assignments longer than one page must be stapled. Journal entries and notebook checks count as homework. Penalties for late assignments will be determined by the class on the first day of school.

- Tests.................................................................50 pts each
  Tests will be given at the end of each chapter. They will ALWAYS be announced well in advance to allow you to plan accordingly.

- Quizzes...............................................................20 pts each
  Quizzes will be given just about every Friday. They will cover the material we learned that week. **If you complete EVERY SINGLE homework assignment for each quarter, at the end of the quarter when I am calculating your grade I will drop your lowest quiz score.**

- Midterm/Final..............................................................100 pts each
  There will be a midterm for this class. It will count as part of your second quarter grade. The final will be the NY State Math B Regents.

- Project.................................................................50 pts each
  Projects will be assigned during the first and third quarter. Details regarding the subject of the project and a rubric for grading will be given at the time of the projects’ assignment.

Your average for each quarter will be determined by dividing the amount of points you received for each graded assignment by the total possible points for the quarter.

The grade breakdowns are as follows:

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<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>100-93%</td>
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<tr>
<td>A-</td>
<td>92-90%</td>
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<tr>
<td>B+</td>
<td>89-87%</td>
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<tr>
<td>B</td>
<td>86-83%</td>
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<tr>
<td>B-</td>
<td>82-80%</td>
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<tr>
<td>C+</td>
<td>79-77%</td>
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<td>C</td>
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<td>C-</td>
<td>72-70%</td>
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<td>D+</td>
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<td>D</td>
<td>66-63%</td>
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<td>D-</td>
<td>62-60%</td>
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<td>F</td>
<td>59-0%</td>
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I’m looking forward to an excellent year. Please, if you have ANY questions, comments or concerns do not hesitate to come and see me!

DO NOT WAIT until it is too late to ask for help.
Ask for help as soon as you need it.
I will make myself available for you whenever you need it.

“People rarely succeed unless they have fun in what they are doing.”
(Dale Carnegie)