**S. Kurzban**

**skurzban@newpaltz.k12.ny.us**

**(845) 532-3635**

Welcome To Algebra I

**Vision Statement**

We envision our graduates as mathematically complex thinkers who can effectively communicate their understanding, can appreciate the beauty of mathematics, and are prepared for the challenges of life beyond high school.

**Mission Statement**

Our mission is to create an environment that fosters a meaningful understanding of mathematics by making connections, developing problem solving strategies, and strengthening reasoning skills, enhanced through the use of technology.

 **Algebra I Curriculum NPHS- 2019/2020**

Welcome to Common Core Algebra I class, this course will cover the algebra I content

of the Common Core Algebra curriculum, review basic pre-algebra, and explore Common Core Algebra and its applications to real-life problems in other content areas. This course will prepare students to take the Common Core Algebra I Regents in June of 2016,

**NPHS- 2019/2020**

****

![j0395901[1]]()**Expectations:**

* Come to class every day and be on time!
* Participate in class by taking notes, working with others to practice problems, and having a “can do” attitude!
* Only one person speaks at a time and if I am speaking, you shouldn’t be!
* Come to class with all supplies.
* No electronic devices as per school policy.

**Supplies:**

**A TI graphing calculator is ideal for students to use in math classes from middle school through college. These are the models that are recommended**

 \*\*\*\*\*TI-84 Plus CE.

 \*\*\*\*\*\*TI-84 Plus Silver Edition.

 \*\*\*\*\*\* TI-84 Plus C Silver Edition.

* 2 inch loose-leaf binder with dividers
* Zippered pencil case
* Pencils
* Highlighters
* 2 Two pocket folders

**\*\*\*\* If students cannot afford a graphing calculator there will be one provided for them to use in the classroom; in addition, students will have access to a graphing calculator simulator on the school server. (See website for link).**

**Attendance:**

* Each block class covers 80 minutes of math material. Students need to be present in class to learn the material. In the event of a legal absence, students need to see me immediately upon their return to school to make up the lesson and homework.

**Homework:**

* Homework is expected to be completed and on time. It is an essential piece to the learning process. Students will be given the opportunity to ask questions on the homework every day. Homework will be collected and graded at random.

**Grading policies:**

* Your 10 week average is calculated using the points you have earned divided by the points possible multiplied by 100 to get your percent grade.
* Quizzes and Tests: Homework Quizzes: There will be quizzes based on all previous lessons.
* Quizzes are announced the previous class, but students should always be prepared at the end of each week.
* Tests are always announced the week before and students will often have a review assignment to help them prepare for the test.

**Math support:**

* I am available to help students from 2:20 PM to 2:45 PM daily unless there is a faculty/department meeting.
* Students should feel free to get help on homework, go over a lesson, get extra practice on a topic, etc.
* There will be regular review sessions to help all students preparing for the Common Core Algebra Regent in June. The schedule will be sent home.

**Communication:**

* Communication is the key to a successful relationship!
* You will receive 5 week progress reports and then 10 week report card grades to let you know how your child is progressing.
* Parent Portal is available for your convenience to check your child’s test grades and homework status any time you wish! You may sign up for Parent Portal by filling out the form in the student handbook or calling Guidance.
* Please feel free to contact me with any concerns about your child at
 (845) 256-4175 Voice mailbox: 1905. However, I do prefer emails.
Visit the website: <http://www.newpaltz.k12.ny.us>

Click on High School, then Teachers, then Mrs. Kurzban**.**

**Topics to be covered this year:** 🖉 🖉 🖉 🖉 🖉 🖉 🖉

**Common Core Algebra I: Course Outline 2019-2020**

**Modular 1: Basic Skills (5 – 6 Weeks)**

**Lesson 1: Expressions and polynomials (Add and Subtract)**

**Lesson 2: Polynomials and Exponents laws**

**Lesson 3: Polynomials Divide & Word Problems**

**Lesson 4: Intro to Solving Equations**

**Lesson 5: More Solving Equations (Distribute and fractional)**

**Lesson 6: Writing Equations (Slope and rate of change)**

**Lesson 7: Writing Equations Day 2 (Parallel /Perpendicular)**

**Lesson 8: Literal Equations**

**Lesson 9: Word Problems using linear Models**

**Lesson 10: Written Unit Portfolio**

**Unit Assessment:**

**Modular 2: SYSTEMS (5 – 6 Weeks)**

**Lesson 1: Word problems (Products of integers)**

**Lesson 2: Linear/Linear Graphically**

**Lesson 3: Inequality/Inequality Graphically**

**Lesson 4: Linear/Linear Algebraically (Substitutions)**

**Lesson 5: Linear/Linear Algebraically (Eliminations)**

 **Lesson 6: Systems using Word Problems**

 **Lesson 7: Intro to Quadratics (Vocab)**

 **Lesson 8: factoring Trinomials (0 Product)**

**Lesson 9: Linear/Quadratic Algebraically and graphically**

**Lesson 10: Mixed App Portfolio and Review**

**Unit Assessment: 24 MC Questions + Part II**

**Modular 3 : Statistics (5 – 6 Weeks)**

**Lesson 1: Data vocab (Uni, Bi, biased, Unbiased, dep,Ind…)**

**Lesson 2: Intro to Stats (Mean, mode, median, Interquartile Range)**

**Lesson 3: Histograms and Cumulative Frequencies**

**Lesson 4: Box Plot/Dot Plot**

**Lesson 5: Symmetrical Distribution (Skewed Right, Skewed left)**

**Lesson 6: Deviations and Standard Deviations from the mean**

**Lesson 7: Scatter Plot (Least square line and Correlation coefficient)**

**Lesson 8: Categorical Data/Associations & Contingency Data**

**Lesson 9: Line of best fit (Writing Equations & Predictions)**

**Lesson 10: Mixed App**

**Portfolio and Review: Unit Assessment: 24 MC Questions + Part II**

**Modular 4: Functions (5 – 6 Weeks) (Souad)**

**Lesson 1: Transformations with Quadratics**

**Lesson 2: Transformations with ABS Value**

**Lesson 3: Transformations with Square Root**

**Lesson 4: Exponential Functions (Growth/Decay)**

**Lesson 5: Exponentials graphically**

**Lesson 6: Piece wise functions**

**Lesson 7: Graphs from a story (Rate of change)**

**Lesson 8: Functions Intro (Definitions)**

**Lesson 9: Domain and Range for all functions**

**Lesson 10: Mixed App: All functions**

**Portfolio and Review**

**Unit Assessment:**

**Modular 5: Factoring & Quadratic functions (5 – 6 Weeks)**

**Lesson 1: Factoring Using GCF (0 product)**

**Lesson 2: Factoring Using DOPS & Completely**

**Lesson 3: Simplifying Radicals**

**Lesson 4: Solving by completing the square**

**Lesson 5: Solving Perfect square binomials**

**Lesson 6: Factoring Using Quadratic formula**

**Lesson 7: Factoring all Methods**

**Lesson 8: Area/Dimensions of rectangles using factoring**

**Lesson 9: Factoring Trinomials with leading of a>1**

**Lesson 10: Mixed App Portfolio and Review**

**Unit Assessment:**

**Modular 6: Miscellaneous (Mixed Skills) (5 – 6 Weeks) (Souad)**

**Lesson 1: Pythagorean theorem/ Triples**

**Lesson 2: Number Properties**

**Lesson 3: Compound Inequalities and /Or (Graphing)**

**Lesson 4: Solving Absolute value equations**

**Lesson 5: Solving Fractional Equations**

**Lesson 6: Arithmetic Sequences**

**Lesson 7: Geometric Sequences**

**Lesson 9: Literal Equations using volume formulas**

**Lesson 10: Mixed App**

**Portfolio and Review**

**Unit Assessment:**

 **Practice for Local final and Regents Exams. (2 – 3 Weeks)**

**Regents: Common Core Algebra I June 2020**