## ALGEBRA 2A

## 2012-2013

## Ms. Mallory Hiser ~ Room 315

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Conference Period: Sixth (1:35 pm - 2:30 pm)
Description : Students are expected to have a working knowledge of Algebra l because this material will be reviewed, and more sophisticated ideas will be introduced. Many of the topics will be new, and it is expected that students can correctly handle the basic algebra so that emphasis can be placed on more abstract topics. Algebra 2A will cover the $1^{\text {st }}$ half of Algebra 2 in one year. Some of the topics include equations, inequalities, systems, matrices, probability and statistics, functions (linear, absolute value, quadratic, and polynomial), and word problems relating to these topics. This course also has a computer component.

## Tentative Course Outline:

| Month | Chapter/ Section | Topic |
| :---: | :---: | :---: |
| Chapter 2 L |  |  |
| Sept. | 2.1 | Functions and Their Graphs |
|  | 2.2 | Slope and Rate of Change |
|  | 2.3 | Quick Graphs of Linear Equations |
|  | 2.4 | Writing Equations of Lines |
|  | 2.5 | Correlation and Best-Fitting Lines |
|  | 2.6 | Linear Inequalities in Two Variables |
|  | 2.7 | Piecewise Functions |
|  |  |  |
|  | Chapter 3 | Systems of Linear Equations and Inequalities |
| Oct. | 3.1 | Solving Linear Systems by Graphing |
|  | 3.2 | Solving Linear Systems Algebraically |
|  | 3.3 | Graphing and Solving Systems of Linear Inequalities |
|  |  |  |
|  | hapter 4 | Matrices and Determinants |
| Nov. | 4.1 | Matrix Operations |
|  | 4.2 | Multiplying Matrices |
|  | 4.3 | Determinants and Cramer's Rule |
|  | 4.4 | Identity and Inverse Matrices |
|  | 4.5 | Solving Systems Using Inverse Matrices |



