**Algebra I Course Syllabus**

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COURSE DESCRIPTION

Algebra I is the study of linear functions, quadratic functions, linear equations, and non-linear equations. Students will model real world data using tables, graphs, and equations.

GOALS

(1) Students will understand functional relationships and be able to represent them in different ways. (2) Students will reason algebraically and symbolically. (3) Students will pass the STAAR.

TEXT

Algebra 1, Glencoe/McGraw-Hill 2007

REQUIREMENTS

Students attend class each and every day. Because this curriculum is sequential and each lesson builds on from previous lessons, attendance is key. Students are required to have class materials every day. These include notebook paper, pencils and pens, and a binder or folder (teacher dependent) in which to keep notes and assignments. Students are highly encouraged to buy their own TI-84 or TI-83 calculators.

TUTORING

Please see tutorial schedule on teacher websites.

EVALUATION

Students’ work will be assessed on a regular basis. Assessments will include homework, common formative assessment (CFAs), and unit assessments as well as performance based assessments.

GRADING STRUCTURE

* 30% Formative (concept checks, class assignments, quizzes, etc)
* 70% Summative (Unit tests(CUA), QCA’s, CWA’s, PBA’s, projects, etc)
* No Extra Credit\*\*

\*Retake policy: students are given the opportunity to retake concept checks, quizzes, and unit tests for a maximum grade of 70%.

HOMEWORK: will be assigned on daily basis, mostly. The main purpose of homework is for concept practice. It is my expectation that all assigned will be completed. While homework will not be taken for an individual grade, it will account for 10 points on a weekly concept check. *Therefore, it will be available for use on concept checks if they have completed it* and will be stapled and turned in at that time*.*

ABSENCES

When a student is absent, it is his/her responsibility to obtain any missed assignments upon returning to class. Missed graded assignments must be made up before or after school.

DISTRICT EXAMINATION

At the end of each quarter and at the end of the semester a cumulative exam will be given.

ACADEMIC DISHONESTY

There is a zero tolerance policy for cheating that includes receiving and/or giving answers to/from another student.

COURSE OUTLINE

j0332680Polynomials

Polynomials is a brief introductory unit designed to review the concepts of variables and exponents. Instruction focuses on application such as calculating area and volume.

j0273990Functions

Data interpretation and scatterplots are investigated in this unit. Students identify variables, construct graphs with appropriate scales and labels, and determine the most reasonable domain and range for a situation.

Linear Relations

Students investigate linear relationships through the investigation of real-world contexts. Graphing and solving linear equations are emphasized. Students learn to recognize that a constant rate of change between the two variables is a linear relationship.

Inequalities

Inequalities are examined in both one and two variable situations in this unit. Students solve and represent possible solutions in either one or two dimensions. Students examine the inequalities to determine shading and identify the solution set.

Systems of Linear Equations

## Students solve systems of equations by graphing, substitution, and linear combination in this unit. In addition, students look at a variety of real life situations and determine the best method to solve the system.

## ED00267_Non-linear Relationships

This unit focuses on second-degree polynomials, the quadratic function, and exponential functions. By investigating a variety of situations that display non-linear patterns of change and making comparisons with linear patterns, students develop knowledge of the characteristics of tables, graphs, and equations.