**Challenger High School**

**Algebra 1 Syllabus 2023-2024**

**MTH 103/104**

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**Grade Level:** 9, 10, 11, 12 **Credit:** Mathematics 1.0 **NCAA Approved**

**Course Description:** This course emphasizes the concepts of Algebra at the high school level. Topics include: data exploration, proportional reasoning and variation, linear equations, fitting a line to data, systems of equations and inequalities, exponents and exponential models, functions, transformations, quadratic models, probability and an introduction to geometry. In addition to these topics, students will interpret and make decisions based on numerical information and find ways to solve problems that arise in real life while working independently and in groups. Over the course of the year the student will earn a 1.0 credit (or a 0.5 credit over the course of a semester, or a 0.25 credit over the course of a quarter).

**MTH103**

Quarter 1: 8/30 – 11/3 Quarter 2: 11/6 – 1/30

Constructing Graphs Creating Linear Models

Multiple Representations Descriptive Statistics

Functions Solving Linear Equations and

Rate of Change Inequalities

Moving Beyond Slope-Intercept Absolute Value Equations

**MTH 104**

Quarter 3: 1/31 – 4/12 Quarter 4: 4/15– 6/14

Creating Linear Models Systems of Linear Equations and

Descriptive Statistics Inequalities

Solving Linear Equations and Other Methods for Solving Systems Inequalities Other Nonlinear Relationships

Absolute Value Equations Other Nonlinear Relationships Laws of Exponents

Exponential Functions and Equations

**This course meets Common Cores State Standards – Mathematics as defined by the state and the school district. This course meets the state and school district graduation requirements.**

Common Core State Standards for Mathematics (which can be found on line at <https://www.thecorestandards.org/Math/>)

CCSS – M Clusters covered in this course:

● N-RN 1-3: The Real Number System

● N-Q 1-3: Quantities.

● N-CN 1-9: The Complex Number System

● A-SSE 1-4: Seeing Structure in Expressions

● A-APR 1-7: Arithmetic with Polynomials and Rational Expressions

● A-CED 1-4: Creating Equations

● A-REI 1-12: Reasoning with Equations and Inequalities

● F-IF 1-9: Interpreting Functions

● F-BF 1-5: Building Functions

● F-LE 1-5: Linear, Quadratic, and Exponential Models

● S-ID 1-3, 5-9: Interpreting Categorical and Quantitative Data

● Math Practices 1 – 8

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**Materials:**

* District approved curriculum: Agile Mind: Algebra
* All other supplementary materials will be provided by the instructor or accessed on the iPad

**Grading Scale: (Progress reports will be done monthly)**

* **A** (92-100%)
* **A-** (90 – 91.9%)
* **B+** (87-89.9%)
* **B** (82 – 86.6%)
* **B-** (80-81.9%)
* **C+** (77-79.9%)
* **C** (72-76.9%)
* **C** (70-71.9%)
* **D+** (67 – 69.9%)
* **D** (60 – 66.9%)
* **NC** (59.9% or below) Student unable to demonstrate mastery of expected skills.

**Grading:**

* 20% Formative – exit slips and assignments that show students understanding as we progress through a topic and are used to inform instruction
* 80% Summative – topic assessments and performance tasks

**Class Expectations:**

Each student is responsible for their own behavior and should act in a manner that will not detract from the learning environment for other students. Refer to the student handbook for further detail on behavioral expectations. Failure to abide by these expectations may result in a warning, removal from the class for a specified time period, parent phone call and/or conference, or additional discipline as spelled out in the student handbook.

* + On the Canvas Home page for this course students and parents are able to access the “lesson plan” for each day and a description of any graded assignments that need to be completed. If a student needs access to an assignment or quiz after it has closed they should let me know and I will reopen it for them.
  + Grades are kept up to date on Synergy (Student and Parent Vue) at least weekly if not more often. If there are any questions as to a grade or an assignment I can be contacted at [smckinley@bethelsd.org](mailto:smckinley@bethelsd.org).

Attendance is crucial in this class. Please be in class, on time, regularly. Many experiences in the classroom cannot be re-created on an individual basis. Research shows that students who miss even a few days of school each month are at a greater risk of academic failure and dropout. It is the student’s responsibility to get assignments and activities that have been missed due to absence from the course Canvas page. Students will spend 4 – 5 hours in class each week and can expect to have 2.5 hours of homework outside of class time.