

## Algebraic Reasoning Class Syllabus

COURSE: Algebraic Reasoning

INSTRUCTOR: Mr. Anthony M. Cherry, M.A.

ROOM: TEAMS

Office Hours: 9:30- 9:45 and A days at 2<sup>nd</sup> Period and B days at 7<sup>th</sup> Period

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ABOUT ME: I have been in education for 19 years. This is my 2nd year at Madison High School. Prior to Madison, I have served as special ed para, Math Specialist, Classroom Teacher, Department Chair and Principal. I look forward to collaborating with parents and students this year to ensure this is a challenging and productive course.

COURSE DESCRIPTION: Students will broaden their knowledge of functions and relationships, including linear, quadratic, square root, rational, cubic, cube root, exponential, absolute value, and logarithmic functions. Students study these functions through analysis and application that includes explorations of patterns and structure, number and algebraic methods, and modeling from data using tools that build to the workforce and college readiness such as probes, measurement tools, and software tools, including spreadsheets.

TEXT: Pearson, Algebra 1 and Algebra 2

Open Stax, Algebra 2

MATERIALS: Composition Notebook, Computer, Writing Utensils, Phone for Apps

EVALUATION POLICY: Home Work- 20%, Do Now – 20%, Classwork- 20%, Quizzes- 20% , Tests-20%

ATTENDANCE, EXAMS, AND ASSIGNMENTS: Students are expected to attend class everyday, participate in TEAMS discussions, and complete all assignments/activities. If you must miss a class for any reason, you are responsible for making up the work and collecting any notes/assignments that you missed.

Submit work before 3:30pm each day when work is due. Makeup exams and assignments will be in accordance with district policy. If you are absent, I will also make attendance calls to parents.

COURSE OUTLINE: Algebraic Patterns 1<sup>st</sup> 6 weeks: Analyzing Linear Functions

Algebraic Patterns 2<sup>nd</sup> 6 Weeks: Representing functions, Matrices and systems of linear equations

3<sup>rd</sup> 6 Weeks: Functions and their inverses

4<sup>th</sup> 6 Weeks: Function Operations

5<sup>th</sup> 6 Weeks: Solutions and their meaning

6<sup>th</sup> 6 Weeks Analyzing real world models