# **Algebraic Reasoning**

**Teacher: A. Rodriguez Room: 3104 Conference period: 3rd Period E-mail: arodriguez46@saisd.net Tutoring times: Upon Appointment Before or After School**

**District/Campus Vision:**

**Our goal is to graduate all students and to prepare them for success in higher education and to be contributing members of the community**

**Welcome to Algebraic Reasoning!**

The Algebraic Reasoning course is designed as a 2nd Math course for students that need extra help with Algebra skills. This course helps prepare students for the Algebra 1 STAAR EOC Test if they have not yet passed the course. Once you pass the Algebra 1 STAAR test in December, the course just provides extra Algebra practice in order to improve their skills.

**Classroom Expectations:**

Students must be willing to work with other students in a respectful environment. Respect the teacher and the other students. They must be working hard, even when things are difficult. No cell phones in class. **Phones will be collected at the beginning of every class.** Be on time. Be ready to learn and improve.

**What will we be looking at in Algebra Reasoning:**

| * Solving Equations
 | * Domain and Range
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| --- | --- |
| * Linear, Quadratic, and Exponential Functions
 | * Finding Slope, Y-intercept, and X-intercept from a graph
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| * Solving and Graphing Inequalities
 | * Simplifying Polynomials (Adding/Subtracting/Multiplying)
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| * Laws of Exponents
 | * Solving Systems of Equations
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| * Graphing Systems of Equations
 | * Solving Quadratic Functions
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| * Key Features of Quadratic Functions (vertex/zeroes/axis of symmetry)
 | * Exponential Functions
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| * Rate of Change
 | * Regression (Linear/Quadratic/Exponential)
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### **Supplies:**

1) Pencils

2) Notebook (Journal)

3) Chromebooks

This class will help prepare students to pass the ***Algebra 1 EOC*** test as well as teaching them foundational mathematical skills.

The Algebra 1 EOC Re-Test is ***Wednesday, December 4th****.* If you are enrolled in this class, you are re-taking the the test because you were not successful. You will be successful this time around! Remember, failure is just a temporary bump in the road towards success!

After students pass the Algebra 1 EOC Re-Test in ***December***, the rest of the year will be devoted to inquiry-based learning in mathematics, math-orinted projects, and preparation for higher math classes.

**Student Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Parent Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Parent Name/Phone Number \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**