

## **Algebra 1 Syllabus 2023 - 2024**

### **Instructor:**

Janice Bowen  
MA Mathematics Education

### **Contact Information:**

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### **Expectations:**

I have high expectations for myself regarding instruction. I will teach each topic thoroughly and strive to achieve student understanding of each topic. Likewise, I also have high expectations for each of my students. Each student should be attentive in the classroom and put forth his/her best effort towards mastering each topic presented.

### **Classroom Policy Regarding Late Work:**

The only way to learn math is to do math. For this reason practice problems will be assigned on a regular basis. The due date will be clearly communicated. If the work is not turned in at the beginning of class on the due date a 20% deduction will be made for each day the work is late up to three days late. After three days the grade will be recorded as a zero.

### **Grades are weighted as follows:**

Classwork and/or Homework: 30%  
Quizzes and/or Tests: 70%

### **General Schedule of Topics:**

#### **First Nine Weeks:**

Algebraic Expressions  
Solving Equations and Inequalities in One Variable  
Applications of Solving Equations and Inequalities in One Variable  
Rearranging Literal Equations  
Solving Absolute Value Equations and Inequalities

#### **Second Nine Weeks:**

Function Notation (Domain, Range, Graphs, Interpret Context in Real World Situations, Analyze Using Different Representations)  
Linear Functions  
Linear Regression  
Correlation vs. Causation  
Piece-Wise Functions  
Writing and Solving Systems of Equations

**Third Nine Weeks:**

Polynomials (Simplify, Add, Subtract, Multiply and Divide)

Quadratic Functions, Graphs and Equations

Quadratic Regression

Exponent Rules

Exponential Functions

Applications of Exponential Functions

Exponential Regression

**Fourth Nine Weeks:**

Radical Expressions (Simplify, Add, Subtract, Multiply and Divide)

Building Functions (Linear, Quadratic, Exponential)

Function Transformations

Interpreting Categorical and Quantitative Data (Represent Data with Plots on the Real Number Line,

Interpret Shape, Center, Spread and Outliers)

Bivariate Data

Correlation vs. Causation