

Algebra 1

Mrs. Virden

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Room 222

Welcome back to school! My name is Mrs. Virden and I am delighted to be your teacher this year. I have been teaching for 15 years, 12 of those years in middle school English classes. I have a BA in Psychology and an MAED in Secondary Education.

I have been with North Pointe for 3 years and have loved every minute of it. I am married to an awesome guy and we have 3 children. I love computers, fishing, camping and boating. I crochet and do some quilting. Crafts and nature are what I love!

While the past 2 years have been quite strange and out of sorts, we begin this year with Hope and Excitement.

Hope

Grading:

- Weekly Quizzes (10 pts)
- Daily Classwork (1 pt per day)
- Unit Assessments (100 pts)
- Test Redo ($\frac{1}{2}$ credit)

Late Work Policy:

Since all class work is done in class, nothing should ever be late if you were in class that day. For students who were not able to turn in their classwork for whatever reason that day and have discussed it with me, will have until the beginning of class the next day to get the work turned in.

Absences:

Please see the student handbook for specific procedures.

Classroom Expectations:

Respect, Respect, Respect

Excitement

What are we doing this year?

- Solve linear equations and inequalities in one variable.
- Apply function notation to describe relationships between quantities and interpret function notation to solve problems.
- Interpret and create graphs of linear relationships.
- Write one-variable and two-variable linear equations and use them to solve problems.
- Describe transformations defined by changes in the slope or the y-intercept of linear functions.
- Represent data with scatter plots and apply mathematical models to solve problems.
- Write systems of equations and solve them using algebraic and graphical methods.
- Represent data with dot plots, box plots, and histograms.
- Analyze, interpret, and justify conclusions from a set of data.
- Determine the sums, differences, and products of polynomials.

- Apply factoring techniques and distribution to rewrite quadratic expressions.
- Graph and transform quadratic functions on the coordinate plane.
- Identify and apply a quadratic data model to make predictions and solve problems.
- Solve quadratic equations in one variable by inspection, taking square roots, factoring, completing the square, and using the quadratic formula.
- Graph exponential functions, and identify their key features.
- Write and apply exponential functions to model situations in the real world.
- Identify and analyze key features of piecewise and absolute value functions.
- Solve systems of linear and quadratic equations graphically and algebraically.
- Solve systems of linear and exponential equations graphically, tabularly, and by applying successive approximation.

How will we be doing it?

We will start out each Unit by doing a pretest. If you pass the pretest, your workload will be much lighter than your classmates as you will not be required to complete the daily at-home reading assignments and a few other assignments during the unit.

Each night, you will be reading a section of the online textbook. You will create a list of questions that you might have and bring them into class the next day. We will be working through problems together, in pairs or in groups. Every day can be a different learning mode. You will receive 1 point per day for your participation in class work time.

Weekly Quizizz will be given on each Friday covering the topics learned that week. There will be 5 questions only and each question is worth 2 points to total 10 pts a week. Even if you pass the pretest, you will still need to complete the quiz.

Student Data Tracking:

I will be providing you with some tracking documents for your grades. We will be using the data gathered from tracking to create a growth chart.

What materials do I need to bring with me? (We have these items but this list is provided to students who want their own, non-communal, items.)

- Composition Notebook (I have about 50 used ones)
- Pencils
- Colored Pencils
- Highlighters
- Scissors
- Glue Sticks

Resources

Big Idea Math Bridge to Success Algebra 1 (Online)

https://bim.easyaccessmaterials.com/index.php?location_user=btshs

Pearson Algebra 1 Common Core Math (Check out possible)

Tutorials - Bridge to Success High School 2015 (Online)

<https://www.bigideasmathvideos.com/>

North Pointe does not accept course credit from other high school or online institutions for currently enrolled students.