**David Brearley High School**

**Algebra 1 Syllabus**

**School Year:** 2017-2018

**Teacher:** Ms. Rattley

**Email:** nadia\_rattley@kenilworthschools.com

**Webpage:** Ms. Rattley’s webpage can be found by:

* David Brearley High School homepage 🡪 Departments🡪 Mathematics🡪 Ms. Rattley

\*\*Homework assignments, test, quizzes, and project reminders can be found here.

**Textbook:** Holt-McDougal Algebra 1 2012 **(**Larson)

\*\*Students will have access an online textbook.

\*\* Students are welcome to obtain a hard copy by signing the textbook out.

\*\*Hard copies will be available for use in the classroom.

**Materials:**

* Pencils (no pens for mathematics work)
* Notebook or three ring binder
* Calculator (\*\***CELL PHONES ARE NOT PERMITTED TO BE USED AS CALCULATORS DURING ANY TIME IN CLASS)**
* Folder for classwork and assignments

**Course Description (Algebra 1):**

The fundamental idea of algebra, variable, is explored in theory and application. Generalizations of numbers lead to successively inclusive number systems, which themselves possess fundamental properties. Algebra and Geometry are in the visual expression of algebraic concepts in graphing. The conceptual base for dealing with polynomials and other rational expressions, and with radical expressions, is carefully developed. Linear equations and inequalities are studied extensively. Algebra I culminates with the study of radical expressions, and their applications to the solution of quadratic equations using the quadratic formula and to problems involving the Pythagorean Theorem.

 **Grades:**

 Marking period grades will be based on a point system. Students will earn points on each assignment. Marking period averages are calculated by total points earned divided by total points attempted.

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| **Category** | **Description of Mathematics Assessments**(*May include, but are not limited to*) | **Points**(*Values may vary*) |
| Major Assessments | Chapter Tests, Mid-Chapter Tests | 50-100 points each |
| Minor Assessments | Quizzes, Projects | 25-50 points |
| Other Assessments & Assignments | Classwork, HW Assessment, Projects, Cooperative & Tiered Assessments | 1-10 points |

**Homework:**

 The reading of material, the practice of skills and the reinforcement of content are critical to a student’s academic development. Work completed at home is an extension of the learning that occurs in the classroom. These assignments are the student’s responsibility and will be evaluated through performance-based assessments. Students and parents can monitor academic progress via the Genesis Parent Portal at their convenience.

**Absences and Make-up work:**

 Students are responsible for getting the assignment as well as the notes when they are absent. Quizzes and tests should be made up in a timely manner. A rule of thumb is two days for each day absent. In accordance with the student handbook any graded paper late one day past the time allowed will receive a 10% reduction, two days late a 20% reduction, three days late a zero.

It is the responsibility of the student to meet with their teacher promptly after school to schedule a time to make up missed quizzes or tests. Failure to do so may result in a zero for the assessment. Unless it is completely unavoidable, do your best to be in class for these assessments.

**Extra Help: \*\***Ms. Rattley encourages everyone to come for extra help if they need it!!!!!! Do not ever be afraid to ask!

* Extra help is available by appointment after school.

**Classwork Grade-**Each student will receive a classwork grade daily. The classwork grade is out of 10 points and includes:

* + Preparedness
	+ Participation
	+ Arriving to class on time
	+ Behavior
	+ Use of electronics
	+ Notes taken in class

**Class Expectations:**

* CELL PHONES and HEADPHONES
	+ Cell phones and headphones should be put away and on silent at all times unless directed otherwise.
	+ There are consequences if this expectation is not met.
* Be respectful TO EVERYONE at all times
* Be prepared for class-
	+ Take notes
	+ Notebook
	+ Folder
	+ Pencil/Eraser
	+ Calculator
* Be on time (classwork points will be deducted for tardiness)
* Be responsible for any worked missed

**Classroom Procedures:**

* + Come to class prepared and on time
	+ Take out any homework to be checked
	+ Read the objective and agenda and begin the “do now” classwork
	+ Copy any notes given in class

Have a Great School Year!

 Algebra I Mastery List

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| --- | --- |
| Time Frame | Students will have mastered the following: |
| September – June | * Reason with Equations
	+ Create equations that describe numbers or relationships.
	+ Solve equations and inequalities in one variable.
* Linear and Exponential Relationships
	+ Extend the properties of exponents to rational exponents.
	+ Solve systems of equations.
	+ Represent and solve equations and inequalities graphically.
	+ Functions and function notation.
	+ Construct and compare linear, quadratic, and exponential models and solve problems.
* Descriptive Statistics
	+ Summarize, represent, and interpret data on a single count or measurement variable.
	+ Summarize, represent, and interpret data on two categorical and quantitative variables.
	+ Interpret linear models.
* Expressions and Equations
	+ Write expressions in equivalent forms to solve problems.
	+ Perform arithmetic operations on polynomials.
	+ Create equations that describe numbers or relationships.
	+ Solve equations and inequalities in one variable.
* Quadratic Functions and Modeling
	+ Use properties of rational and irrational numbers.
	+ Interpret functions that arise in applications in terms of a context.
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