**David Brearley High School**

**Algebra 2 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 2 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 2):**

Algebra 2 builds upon the concepts presented in Algebra 1 and Geometry. New context is introduced as an extension of material previously mastered in the above-mentioned courses. Continued study of math concepts including linear and quadratic equations, inequalities, relations, functions, radicals, imaginary and complex number are studied. Students are expected to use a graphics calculator for use in the classroom and on tests.

 **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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