**Orange High School**

**Course Outline / Syllabus**

**High School Algebra 2**

Instructor: Luis G. Victorero Moya

Email: victoelu@orange.k12.nj.us

Classroom: Room 231

**Parents/Guardians are encouraged to contact me regarding any concerns regarding your child in my class. You can reach me at my email address. I will do my best to return emails within 24 hours. I will regularly contact Parents/Guardians to discuss student progress.**

**Course Description:**

Algebra II is a year-long 10 credit course. In this course, students begin the course with a study of sequences, which is also an opportunity to revisit linear and exponential functions. Students represent functions in a variety of ways while addressing some aspects of mathematical modeling. This work leads to looking at situations that are well modeled by polynomials before pivoting to a study of the structure of polynomial graphs and expressions. Next, students extend exponent rules to include rational exponents. Building on rational exponents, students return to their study of exponential functions and establish that the property of growth by equal factors over equal intervals holds even when the interval has non-integer length. The last unit, on statistical inference, focuses on analyzing data from experiments using normal distributions. Within the classroom activities, students have opportunities to engage in aspects of mathematical modeling and reasoning.

**Course Objectives/Outline:**

Unit 1: Sequences and Functions

Unit 2: Polynomials and Rational Functions

Unit 3: Complex Numbers and Rational Exponents

Unit 4: Exponential Functions and Equations

Unit 5: Transformations of Functions

Unit 6: Trigonometric Functions

Unit 7: Statistical Inferences

**Authentic Assessments**: Minimum of 2 authentic assessment projects per marking period

**Tests:** Minimum of 2 tests per marking period, plus a diagnostic before the start of every unit

**Classwork**:

Students will have class work during every class. Whether it is individual work or group work, students are expected to actively work on these assignments. Class work may be collected at the end of the class to be graded for accuracy. Classwork grades will be allocated according to the rubric below.

Minimum of 8 class work grades per marking period. Whether it is individual work or group work, students are expected to actively work on these assignments. Class work may be collected at the end of the class to be graded for accuracy.

**Quizzes/Checkups**: Minimum of 4 quizzes per marking period.

**In addition to this, NWEA and Benchmark assessments will be part of your final grade. NWEA will be taken in MP1, MP2 and MP3 or MP4. There will be a Benchmark exam at the end of each marking period which will be considered the “final exam” for the unit. We will do a comprehensive review for each one of those.**

**Homework**:

Homework will be given frequently and graded for completeness. Homework must be out on your desk while working on the ‘Do Now’ in the beginning of class. If homework is completed in full and on time, you will receive full credit (100%). Any late homework will be given partial credit, and not accepted after 1 week past the due date.

* Homework is due on your desk during the Do Now at the beginning of class every day. I do not want to give you late penalties for missing the timeframe. Make sure you have all your work ready for the day is due!
* If a student is absent from school on the day homework is due, they are expected to turn it in the day they return. If a student is absent from my class, they are still expected to turn in their homework on time at some point during the day.
* Any student suspected of copying (or letting others copy) homework will receive a 0.
* When possible, ask the teacher for help. This will be the best way for you to do well on these assignments. I am here every morning and will stay after school upon request.

**Participation Grade (part of classwork grade):**

You should earn 5 tickets/points each day. Teacher will collect all tickets at the end of every class.

* 1 point: being on time and seated quietly
* 1 point: correctly following the startup procedure
* 1 point: quietly taking notes during lesson
* 1 point: correctly following the exit ticket procedure
* 1 point: displaying **excellent student behavior** during **100% of class**

**Required Supplies**

Each student is responsible for coming to class everyday with the following:

* 1 Notebook. Student must have a notebook to take notes, classwork and even for homework.
* 1” three-hole binder for Algebra class (will contain all notes for this course. Students are responsible for their Algebra binder and all materials/notes in it, even if it is lost or stolen - at which time they will be responsible for replacing.)
* Lined, three-hole paper placed inside Algebra binder for taking notes (also called “filler paper”) or preferably GRAPH PAPER.
* Pencils, rulers, and erasers.

**Grading Policy:**

 Your Algebra II grade is made up the following categories and their corresponding weights:

|  |  |
| --- | --- |
| Authentic Assessments | 25% |
| Tests | 25% |
| Classwork / Participation | 20% |
| Quizzes | 20% |
| Homework | 10% |

**Grades are regularly updated online and are available for review at any time.**

**Bathroom Policy:**

There will be one bathroom pass given out at a time.

**Rules of Conduct & Guidelines**

Below are some specific rules that should be followed in my classroom (additional rules will be discussed and posted in classroom on first day):

* **Be respectful** to yourself, your classmates, and your teacher(s)
* **Do not become a disruption or a distraction** in class. This will not be tolerated, and the student will receive detention and/or be removed from class if this occurs. Removal from class would result in loss of participation and classwork points for the day, and possible administrative action.
* **Be on time**. This means in your seat and quiet before the class starts.
* **Follow proper start up procedure.** First 10 minutes are spent doing either a Do Now problem or taking an “entrance slip” which will assess students on the previous day’s material. Entrance slips should be taken seriously and with NO talking, so as to simulate a testing environment. Your homework should be on your desk for the teacher to grade while you are working on your Do Now.
* **Do your classwork with purpose and urgency**. Complete all classwork with the intention to LEARN something, not to just check it off a list.

**Absences**

Students are responsible for all material taught. If pacing is too fast for a particular student, then they must seek extra help from the teacher either before or after school. You are welcome to email me if any problems with quarantine or sickness are to happen. There is a section about class rules via remote live, please make sure you read that in case you have any questions regarding being remove from a remote live class due to behavior issues.

If a student is absent or removed from class, then points will be lost from their participation/class work grade and they will still be responsible for all material they may have missed. Students have as many days as they were absent to make up additional assignments (including quizzes and tests). For example, if a student is absent for 1 day and misses a class work assignment, then it is THEIR responsibility to turn in the assignment within 1 day after their return.

**Make-up Policy:** Students who are absent are responsible for the work and instruction missed. **IF** you are absent on a due date, all work is due the day you return; deadline for assignments given on the day you were absent will be discussed. Students must be present on the day of a major test.

**Classroom Rules of Conduct:**

1. Be prepared for class in the following ways:

a. Bring your material to class everyday: pencil, eraser, notebook paper, and textbook.

b. Be on time and be prepared to begin as soon as the bell rings.

2. Be considerate of other people’s feelings, opinions and thoughts.

3. Pay attention and participate in class.

4. All cell phones/iPods/etc. will be on silent and put away during class.

5. Profane language will not be tolerated in the classroom.

6. Students will adhere to all OHS rules and policies.

**Requirements to receive credit:** Please refer to student handbook for attendance policy and feel free to call or email me if you have any questions about this class.

I may amend this syllabus during the school year. I wish you and your child much success this school year!

**COURSE OUTLINE/SYLLABUS AGREEMENT**

**I HAVE READ AND UNDERSTAND THE EXPECTATIONS OF THIS CLASS AS OUTLINED IN THE SYLLABUS. I AGREE TO ABIDE BY THE RULES AND PROCEDURES ESTABLISHED BY THE INSTRUCTOR.**

**Student’s Printed Name:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Student’s Signature:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**Parent’s Printed Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Parent’s Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**Current Parent Phone Number: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Current Parent Email: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Preferred method of communication (e-mail/phone/text)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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