



# Classroom Rules and Procedures

Teacher: C. Smith

Contact Information: 252 792 0241 ext 223

Email Address: [csmith1@neregionalschool.org](mailto:csmith1@neregionalschool.org)

Purpose: To inform each student and parent of classroom responsibilities in Integrated Math IV Honors.

---

**Course: Integrated Math IV Honors**

**Course Code: 24025X0**

## Course Description:

Course 4 continues to advance student's understanding of mathematics along interwoven strands of algebra and functions, statistics and probability, geometry and trigonometry, and discrete mathematics. The primary focus is on advanced topics in the algebra/functions and geometry/trigonometry strands. These strands are unified by fundamental themes, by common topics, by mathematical practices, and by mathematical habits of mind. (Core-Plus Mathematics: Contemporary Mathematics in Context)

## Course Goals/Performance:

N-VN: Represent and model with vector quantities and perform operations on vectors.

N-CN: Perform arithmetic operations with complex numbers and represent complex numbers and their operations on the complex plane.

N-Q: Reason quantitatively and use units to solve problems.

A-SSE: Interpret the structure of expressions and write expressions in equivalent forms to solve problems.

A-APR: Use polynomial identities to solve problems.

F-IF: Analyze functions using different representations.

F-BF: Build a function that models a relationship between two quantities and build new functions from existing functions.

F-LE: Construct and compare linear and exponential models and solve problems and interpret expressions for functions in terms of the situation they model.

F-TF: Extend the domain of trigonometric functions using the unit circle, model periodic phenomena with trigonometric functions, and prove and apply trigonometric identities.

G-SRT: Apply trigonometry to general triangles.

G-GPE: Translate between the geometric description and the equation for a conic section and use coordinates to prove simple geometric theorems algebraically.

S-ID: Summarize, represent, and interpret data on a single count or measurement variable and on two categorical and quantitative variables and interpret linear models.

## Academic Requirements:

The student must maintain at least an average of 60 or better to receive credit for this course.

In averaging ten weeks grades, the following percentages will be used:

Test average counts 40% (Projects will count as a test score and there will be a minimum of 3 major grades)

Quiz average counts 30% (Quizzes will be announced, unannounced, and cumulative)

Classwork/participation average counts 20%

Homework average counts 10%

**Formal Test Administration Dates\*:**

Test Number	Approximate date:
1	January 25
2	February 15
3	March 9
4	April 12
5	April 27
6	May 14

\*Subject to change.

Course Outline Dates	Course Goal/Objective
<b>January 11 – January 25, 2021</b>	<b>Unit 1:</b> <i>Series, Permutations, Combinations, and Probability</i> (Geometric and arithmetic sequences and series, permutations and combinations, probability, normal distribution and population percentages, fair decisions)[A-SSE.4, F-BF.2,S-CP.1,2,3,4,5,6,7,8,9, S-ID.4, S-MD.6]
<b>January 26 – February 15, 2021</b>	<b>Unit 2:</b> <i>Function Models</i> (Linear and exponential models, translation, reflection over the x-axis, vertical and horizontal stretch and compression, combining functions)[N-Q.1,2, A-SSE.1ab, F-LE.1abc,5, S-ID.6a,8, F-BF.1bc,3,4b]
<b>February 16 – March 9, 2021</b>	<b>Unit 3:</b> <i>Vectors and Motion</i> (Polar coordinates, rectangular coordinates, operations of vectors, parametric equations)[N-VM.1,2,3,4,5]
<b>March 10 – April 12, 2021</b>	<b>Unit 4:</b> <i>Algebraic Functions and Equations</i> (Complex numbers, polynomial identities, writing the equation of a parabola given a focus and a directrix, finding a point on a directed line segment between two given points that partitions the segment in a given ratio)[N-CN.2,3,4,5,6, A-APR.4, A-SSE.2, G-GPE.2,6]
<b>April 13 – April 27, 2021</b>	<b>Unit 5:</b> <i>Trigonometric Functions and Equations</i> (Trigonometric functions, unit circle, area of a triangle, law of sines and cosines, proving Pythagorean identity and calculating trigonometric ratios, sum and difference identities of sine, cosine, and tangent)[F-IF.7e, F-TF.1,2,3,4,5,8,9, G-SRT.9,11]
<b>April 28 – May 14, 2021</b>	<b>Unit 6:</b> <i>Exponentials and Logs</i> (logarithms, equations, exponential equations)[F-IF.7e, F-BF.5, F-LE.4]
<b>May 17 – May 21, 2021</b>	<b>Exam Review</b>
<b>May 24 – May 28, 2021</b>	<b>Exams (Exact Date TBA)</b>

### **Reference/Texts/Outside Reading Requirements:**

Core-Plus Integrated Math 2 and 4 textbook  
Google Classroom  
Khan Academy  
GoFormative  
Quizizz  
Kahoots

### **Video/Films/Instructional Facilitators/Guest Speakers:**

Khan Academy  
TBA

### **Student Required Materials/Supplies:**

*Graph paper notebook*, graph paper composition book, or 2 inch 3 ring binder with graph paper  
Pencils with erasers  
Ink Pens (erasable preferred)  
Pack of 4 expo markers (different colors) [These markers will be used every day when in the classroom.]  
Highlighter  
Glue sticks  
PERSONAL hand sanitizer  
PERSONAL Tissues  
Protractor and Compass (recommended for homework) (Will need to have one at home)  
\*Optional TI-84+ CE for home use (Will have access to one during class and on the computer.)

### **Field trips/Extracurricular Activities:**

VJC – TBA

### **Classroom Rules/Policies/Procedures:**

Each student is expected to keep an organized notebook and to show all math work. They are also to come to class prepared with their notebook, pen/pencil/expo marker, and all assignments.

Assignments posted in Google Classrooms will need to be completed daily and submitted as a pdf (see Google Classroom for instructions on how to do this). Files submitted as jpegs will not be accepted but returned ungraded.

Each student is expected to hand-in assignments on time in order to avoid a late penalty of 10 points per day with a three day limit. After the third day no credit will be given.

Each student is expected to make up missed work within 5 days. Before leaving school early, students should bring work to me and get assignments. If students arrive late, then they should also bring work to me and get assignments. (Assignments will be posted in Google Classroom.)

Each student will have nightly homework and internet-based assignments. **Homework will not be accepted late.**

**Attendance** has a major impact on success in a math class. Students should strive to be in class every day whether physical class or virtual; however, if an absence is necessary, it is the responsibility of the student to contact the teacher to determine what has been missed and requirements for completing it. (Information will be supplied in Google Classroom.)

Students are required to attend zoom meetings during the scheduled time using the zoom link provided in Google Classroom.

Zoom meetings will be recorded and posted on Google Classroom.

If internet issues prevent a student from attending a zoom meeting, an email/phone call must be sent/made from their parent/guardian otherwise the student will be marked absent.

Each student is expected to keep electronic devices such as cell phones and Ipods in their book bags or pocket books. If electronic devices are caught being used other than for class assignments they will be confiscated by the teacher till the end of class.

Each student is to take care of personal needs (I.E., bathroom, water, etc.) before school, between classes, lunch, or after school. Each student will have three restroom passes per ten weeks that they may use wisely.

Each student will treat fellow students and teachers with respect, general manners to be followed.

**Five Rules to Follow:**

1. Raise your hand to walk or talk.
2. Adhere to dress code policy.
3. Earphones/Headphones must be used only at the teacher's discretion.
4. Respect your fellow classmates, teacher, and environment (keep your area clean).
5. Come to work with a positive attitude every day.

These rules are necessary to help us have a successful year. Please sign this sheet indicating that you understand the above rules.

Student's Signature \_\_\_\_\_

Parent's Signature \_\_\_\_\_

Teacher's Signature \_\_\_\_\_