

Cosby High School

**2020-2021**

Course Syllabus

Course: **Integrated Mathematics 2 and Integrated Mathematics 2 Honors**

Instructor: **Ms. Walsh**

Cosby High School, **Room 117**

**Email:** [walsht@cocke.k12.tn.us](mailto:walsht@cocke.k12.tn.us)

**Phone: Use the Remind app**

**Remind App:** Integrated Mathematics 2 Block 1 **To join:** Text 81010 the message @g2gf6279ae  
Integrated Mathematics 2 Block 2 **To join:**Text 81010 the message @ef77bh87cb  
Integrated Mathematics 2 Block 3 **To join:**Text 81010 the message @f26bbc7k8b

NOTE: If texting 81010 does not work, try texting the code to phone number (425) 336-3271

**Google Classroom:** Integrated Mathematics 2 Block 1 Class Code eltwhiw  
Integrated Mathematics 2 Block 2 Class Code degf7gt  
Integrated Mathematics 2 Block 3 Class Code 2cxkgiw

NOTE: Must use school district Google account and Gmail address as username and Gmail password as password to access Google Classroom

Students may attend class virtually through Google Meet.

Block 1 8:15 a.m. to 9:45 a.m. Google Meet Code: d3wtmllial Be prepared to join a late start

Block 2 9:51 a.m. to 11:21 a.m. Google Meet Code: gtu4z7a7kw Be prepared to join a late start

Because I may not have Google Meet up and running right on the dot, please be prepared to join with some time leniency. You may Remind me at any time to check on Google Meet availability for a given class.

Textbooks: **Integrated Mathematics 2, Volumes 1 and 2**, Houghton Mifflin Harcourt

The textbook, workbook, learning resources, and some assignments can be accessed online at

<https://my.hrw.com/>

Other district adoptions: <https://www.studyisland.com/>

Study Island will be used by all students for 30 minutes per day as remediation work.

We are using the course material under US Programs (bottom left) Program: MathII (CCSS Integrated Pathway)

**Calculators:** A Texas Instruments graphing calculator is required for this course.

The following models are acceptable for use on the Tennessee state End of Course (EOC) exam: TI-83, TI-83+, TI-84,

TI-84+, TI Silver Edition, TI-84 CE Color, TI-NSpire (non-CAS) or TI-NSPIRE-CX (non-CAS) is required for this course.

Due to the coronavirus and the possibility that school may be at times conducted virtually, it is highly recommended that each student obtain their own graphing calculator this year.

These calculators will serve the student for the rest of their high school and college mathematics careers, and are always significantly cheaper in the days leading up to the first day of school.

A limited number of calculators are provided for use in the classroom ONLY and are NOT to be removed from the classroom. They must be sanitized in between uses, and may NOT be shared from one student to the next.

**Course Prerequisite:** Integrated Mathematics 1

**Course Description:** Integrated Mathematics 2 builds upon concepts taught in Integrated Mathematics 1 with an emphasis on quadratic and polynomial expressions, equations, and functions. This course also focuses on geometric similarity and interpreting functions from a real life context. Students extend previous knowledge of exponential properties to rational exponents. This course also introduces probability of compound events and the complex number system.

**EOC:**

**This course requires students take a State of Tennessee EOC (End-of-Course) exam to show proficiency of content which will comprise 15% of the course grade (dependent on current year's law which may be affected by COVID-19 impacts on legislation).**

**Course supplies:**

- Chromebook (provided by school district as soon as possible)
- Internet access
- Google account and gmail address issued by school district: ***student and parent must first sign and return the 1. Acceptable Use Policy and 2. Cocke County Schools Digital Citizenship Pledge and 3. Student Email/Google Account Permission Form (current school year)***
- Student and parent/guardian signed and returned Acceptable Use Policy
- Student and parent/guardian signed and returned Cocke County Schools Digital Citizenship Pledge
- Google Classroom
- Google Calendar
- Google Meet
- Google Drive
- Google Docs
- Google Keep
- Microsoft Office 365 OneNote, students should be able to sign up for Office 365 FREE
- YouTube
- Remind App
- Graph paper composition notebook
- Ruler, clear and see-through, unbreakable
- Pencils
- Pens, any two colors
- Notebook paper
- Binder
- Graphing Calculator (see above for acceptable models)
- 4 AAA batteries for calculator
- Colored pencils
- Highlighters
- Personal hand sanitizer is highly recommended

- o Face mask and any other protective measures which may be required by the CDC, government, or district

Guidance counselors and Mrs. Murrell are available to make sure all students have all needed supplies.

**Instructional and Evaluation Method:**

Grading Scale:

**A = 93 – 100**

**B = 85 – 92**

**C = 75 – 84**

**D = 70 – 74**

**F = 69 and below**

**Grades:**

Grades will be posted in ASPEN. All parents/guardians and students may access posted grades 24/7 online. If you need to learn how to access grades, please see Mandy Hall in the office.

**ALL WORK MUST BE SHOWN IN ORDER TO RECEIVE CREDIT.**

**Academic Integrity:**

To maintain the integrity of all grades awarded, both the students who cheat and/or copy the work of another student, AND the student who provided the work to copy from, will receive no credit for the work. Likewise, students who copy their answers from the internet, app, or other format will receive no credit.

**Graph Paper Composition Notebooks:**

Notebooks must include the date of instruction, the day's learning goal, and all classroom notes, handouts, and classwork.

Quiz grades may be issued for notebooks.

Graded assignments may include active class participation, classwork, homework, virtual assignments, projects, quizzes (announced and unannounced), and exams.

**Homework:**

Students should expect to do a significant amount of work out of class this school year in order to meet the requirements of the state standards for this course, and considering the disruption of the normal past and current school years.

**Make up work:**

Students have the responsibility to ask for and complete, in a timely manner, any make up work due to absences. Please consult Google Classroom, Google Calendar, and Google OneDrive, as well.

**Math Remediation:** All students will be required to spend 30 minutes per week on math remediation through the online program <https://www.studyisland.com/>. This requirement also applies to English, Science, and Social Studies.

**Attendance:**

Attendance is critical to success in school. Please come to school. Should you have troubles that prevent you from coming to school when it is in session on campus for any reason, please see Mr. Patrick McLaughlin, Mr. Will Lewis, or our guidance counselors, Sherrie Weeks, and Amy Miller for assistance.

ALL students should go to Google Classroom every school day (whether in class, remote, or distance learning) and answer the attendance question for the day (prior to 3:15 p.m. if at all possible). If students can

NOT complete this attendance requirement, they MUST tell Ms. Walsh the reason and work out a suitable way in which they can complete this attendance assignment. Thank you.

**Tardy Policy:**

- 1st – 3rd Times           Teacher warning
- 4<sup>th</sup> Time               Administration warning
- 5<sup>th</sup> Time               Lunch detention
- 6th – 7th Time One block of in-school suspension
- 8<sup>th</sup> – 9th Time One day of in-school suspension and parent contacted
- 10<sup>th</sup> Time           Two days of in-school suspension and parent meeting

**Classroom Rules:**

Be on time, in your assigned seat, ready to learn, with all needed supplies out of your backpack, from bell to bell.

Backpacks should be placed in designated location for duration of class.

**Cell phones should be turned off and put away in student’s backpack unless being used with PRIOR teacher permission per use for a class assignment.**

Students are HIGHLY ENCOURAGED to have on their own person a portable phone charger battery. CHROMEBOOKS should be fully charged nightly so all work can be done at school, regardless of plug in accessibility or availability.

Learning and engagement in work is expected of all students from bell to bell.

Students who disrupt the learning of the class will face disciplinary action.

Do not leave your seat until the teacher dismisses you.

Be quiet and still when the intercom is being used.

Follow the school hall pass policy.

Follow all school transition policies.

During drills, stay with your classroom teacher and your classmates.

**Food and drinks are NOT allowed in the classroom** with the exception of water.

School policy specifically forbids students from bringing drinks or food to class from restaurants or home.

**Chewed gum MUST BE disposed of in a lined trash can container.**

**Do NOT use the intercom phone.**

**Do NOT touch the classroom thermostat or move the thermostat settings.**

The teacher reserves the right to make changes to the syllabus and focus calendar as needed.

Please see the school board policies at <https://cockecountyschools.org> and the school policies at <https://cosbyhighschool.weebly.com>

School board and Cosby High School policies will take precedence should discrepancies arise.

The major work of Integrated Math II is from the following domains and clusters:

The Real Number System

Extend the properties of exponents to rational exponents.

M2.N.RN.A.1; M2.N.RN.A.2

Seeing Structure in Expressions

Interpret the structure of expressions.

M2.A.SSE.A.1

Write expressions in equivalent forms to solve problems.

M2.A.SSE.A.2, M2.A.SSE.B.3 a and b

Arithmetic with Polynomials and Rational Expressions

Perform arithmetic operations on polynomials.

M2.A.APR.A.1

## Creating Equations

Create equations that describe numbers or relationships.

M2.A.REI.A.1, M2.A.CED.A.1, M2.A.CED.A.2

## Reasoning with Equations and Inequalities

Understand solving equations as a process of reasoning and explain the reasoning.

Solve equations and inequalities in one variable.

M2.A.REI.B.2 a and b

## Interpreting Functions

Interpret functions that arise in applications in terms of the context.

M2.F.IF.A.1, M2.F.IF.A.2, M2.F.IF.A.3

## Similarity, Right Triangles, and Trigonometry

Understand similarity in terms of similarity transformations.

M2.G.SRT.A.1, M2.G.SRT.A.2, M2.G.SRT.A.3

Prove theorems involving similarity.

M2.G.SRT.B.4, M2.G.SRT.B.4, M2.G.SRT.B.5

Define trigonometric ratios and solve problems involving triangles.

M2.G.SRT.C.6, M2.G.SRT.C.7, M2.G.SRT.C.8 a and b

Supporting work is from the following domains and clusters:

### Quantities

Reason quantitatively and use units to solve problems.

M2.N.Q.A.1

### The Complex Number System

Perform arithmetic operations with complex numbers.

M2.N.CN.A.1, M2.N.CN.A.2

Use complex numbers in polynomial identities and equations.

M2.N.CN.B.3

### Reasoning with Equations and Inequalities

Solve systems of equations.

M2.A.REI.C.3, M2.A.REI.C.4

### Interpreting Functions

Analyze functions using different representations.

M2.F.IF.B.4, M2.F.IF.B.5, M2.F.IF.B.6

### Building Functions

Build a function that models a relationship between two quantities.

M2.F.BF.A.1 a and b

Build new functions from existing functions.

M2.F.BF.B.2

### Geometric Measurement and Dimension

Explain volume and surface area formulas and use them to solve problems.

M2.G.GMD.A.1, M2.G.GMD.A.2

### Interpreting Categorical and Quantitative Data

Summarize, represent, and interpret data on two categorical and quantitative variables.

M2.S.ID.A.1

### Conditional Probability and the Rules of Probability

Understand independence and conditional probability and use them to interpret data.

M2.S.CP.A.1, M2.S.CP.A.2, M2.S.CP.A.3, M2.S.CP.A.4

Use the rules of probability to compute probabilities of compound events in a uniform probability model.

M2.S.CP.B.5, M2.S.CP.B.6