

Cosby High School
2020-2021
Course Syllabus

Course: Integrated Mathematics 2 A

Instructor: Mrs. Hooper

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Required Textbook: Integrated Mathematics 2 Volume 1: Houghton Mifflin Harcourt
Integrated Mathematics 2 Volume 2: Houghton Mifflin Harcourt

Required Technology:

- Calculator - 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+, or TI Silver Edition. (There is a class set)
- School issued chromebook (or other laptop/phone)
- Google classroom (class code: **ga4wmqi**)
- Remind (class code: **@8bc74g**)
- Khan Academy
- Ck-12
- Seneca
- Edulastic
- Study Island

Course Prerequisite: Integrated Mathematics 1

Course Description: Integrated Mathematics 2 builds on what the students learned in Integrated Mathematics 1. This course enables students to develop a strong conceptual understanding and mastery of key mathematics standards. Some key concepts include: quadratics, polynomials, geometric proofs, triangles, circles, and probability. Students will use physical models to represent, explore, and develop abstract concepts. Students will also use required technology (Khan Academy, Ck-12, Seneca, Edulastic, Study Island) to apply mathematical concepts to real world situations.

Course Supplies:

- Paper
- Notebook

- Pencil
- Pen
- Highlighter
- Graph Paper
- Calculator
- Chromebook

Instructional and Evaluation Method:

- **Grading Scale:**
 - A: 93 - 100
 - B: 85 - 92
 - C: 75 - 84
 - D: 70 - 74
 - F: 0 - 69
- Homework average is 40% of grade
- Quiz average is 20% of grade
- Test average is 40% of grade

Grades will be posted in aspen.

Homework: There will be daily homework assignments. Students can find the homework assignments in the corresponding week in google classroom. Homework assignments will be worth 40% of the students final grade.

Quizzes: There will be multiple quizzes throughout the semester. Quizzes could be in class, take home, or homework assignments. Quizzes will be worth 20% of the students final grade.

Tests: Tests will be given after chapters, units, or concepts. Test corrections will be allowed for partial credit after a test. If a test is missed due to an absence, the student will have to make an appointment with the teacher to make up the test. Tests will be worth 40% of the students final grade.

Makeup Work: It is up to the student to see the teacher about any missing/makeup work. The student should talk to the teacher the day the student returns to school for any and all makeup work. This includes all homework, quiz, and test assignments. The student will have a week to complete the assignment. If the student fails to contact the

teacher about the missing work or fails to complete the makeup work, the grade on the missing assignments will be a zero.

Late Work: Students can find due dates of assignments on google classroom. If a student fails to turn in an assignment by the due date, they will have three days to turn in the assignment. The first day the assignment is late, the grade will automatically be deducted 10 points. The second day the assignment is late, the grade will automatically be deducted by 25 points. The third day the assignment is late, the grade will automatically be deducted 30 points. If the student fails to turn in the assignment in four days, the grade will be counted as a zero.

Attendance: Attendance is critical in order to pass the course. Many lessons will build upon what the student learned the day before. It is important the student comes to class so that they can complete the assignments for that day. It is also important to complete missing assignments in a timely manner so that the student stays on pace with the learning objectives. Students are also required to submit attendance assignments for **remote learning days** in google classroom. Find the attendance assignment in the corresponding week to the date under “classwork” in google classroom.

Tardy Policy:

- 1st-3rd Tardies: Teacher warning
- 4th Tardy: Administration warning
- 5th Tardy: Lunch detention
- 6th-7th Tardy: One block of in-school suspension
- 8th-9th Tardy: One day of in-school suspension and parent contacted
- 10th Tardy: Two days of in-school suspension and parent meeting

Classroom Rules:

- Be on time for class
 - Be in assigned seat with material out on desk ready to begin
- Be prepared for class
 - Have all previous homework completed
 - Have all required materials
- No cell phones
 - Cell phones should be up and off
- Do not touch the intercom phone or thermostat
- Stay in seats until bell rings
- Be respectful of others personal space and belongings
- Do not leave trash or other belongings behind
 - Pick up after yourself

Integrated Mathematics II is broken down and clustered into the following:

- Characteristics of Functions
 - Analyzing Functions
 - Absolute Value Functions, Equations, and Inequalities
- Polynomial Operations
 - Rational Exponents and Radicals
 - Adding and subtracting polynomials
 - Multiplying Polynomials
- Polynomial Functions, Expressions, and Equations
 - Graphing Quadratic Functions
 - Connecting Intercepts, Zeros, and Factors
- Quadratic Equations and Models
 - Using Factors to Solve Quadratic Equations
 - Using Square Roots to Solve Quadratic Equations
 - Linear, Exponential, and Quadratic Models
- Extending Quadratic Equations
 - Quadratic Equations and Complex Numbers
 - Quadratic Relations and Systems of Equations
 - Functions and Inverses
- Geometric Proof
 - Proofs with lines and Angles
 - Proofs with Triangles and Quadrilaterals
- Similarity and Right Triangles
 - Similarity and Transformations
 - Using Similar Triangles
 - Trigonometry with Right Triangles
- Properties of Circles
 - Angles and Segments in Circles
 - Arc Length and Sector Area
- Volume
 - Volume Formulas
- Understanding Probability
 - Introduction to Probability
 - Conditional Probability and Independence of Events
 - Probability and Decision Making