

Cosby High School

Integrated Math I (Tier III Intervention)

2019-2020 Syllabus

Instructor Information

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Course Description

This course assists students with strengthening basic math skills. Students are also expected to: make sense of problems and persevere in solving them, reason abstractly and quantitatively, construct viable arguments and critique the reasoning of others, model with mathematics, use appropriate tools strategically, attend to precision, look for and make use of structure, and look for and express regularity in repeated reasoning.

General Education/High School Pathway Area

This is one of the four math courses required for high school graduation. Fall semester, students will receive one elective credit; and spring semester students will receive one math credit (with a minimum of 70% maintained as the course grade).

Textbook & Course Materials

The following three textbooks will be provided for students and will be used throughout this year-long class: Integrated Math I, Algebra I, and Geometry. Supplemental materials addressing specific math skills will also be used.

Course Requirements

Students will need to report to class with pencils, paper, and one three-ring binder (1 ½ - 3 inch will suffice). A TI-83 or TI-84 calculator would be beneficial; however, calculators will be available for use during class.

Course Structure

Daily, students will be required to write one complete sentence (with correct grammar, spelling, and punctuation) utilizing a math term correctly. Math concepts and problems will be discussed and solved allowing students the opportunity to ask questions. A daily assignment will be given and students may work together in small groups (2-3) to complete their work during class. At the end of class, students will complete a problem on an exit ticket to demonstrate whether mastery of the concept was achieved. On most Fridays, students will solve various puzzles to assist them with their problem-solving skills.

Student Learning Outcomes

- Choose and produce an equivalent form of an expression to reveal and explain properties of the quantity represented by the expression
- Use the properties of exponents to rewrite exponential expressions
- Create equations and inequalities in one variable and use them to solve problems
- Create equations in two or more variables to represent relationships between quantities; graph equations with two variables on coordinate axes with labels and scales
- Rearrange formulas to highlight a quantity of interest, using the same reasoning as in solving equations
- Solve linear equations and inequalities in one variable, including equations with coefficients represented by letters
- Graph the solutions to a linear inequality in two variables as a half-plane, and graph the solution set to a system of linear inequalities in two variables as the intersection of the corresponding half-planes

Students will meet the above-listed objectives through a combination of: individual assignments, group work, puzzle-solving, discussions, projects, quizzes, and tests.

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Semester 1

Topic Outline/Schedule

Week	Topic	Resources	Activities	Due Date
1	Comparing, ordering, rounding & adding whole numbers; real numbers	Handouts Algebra I Text Integrated Math I	Skills handouts; quiz 1 Textbook assignments	8/9/19
2	Percent of change, proportion, subtracting & multiplying whole numbers	Handouts Algebra I Text Integrated Math I	Skills handouts, quiz 2 Textbook assignments	8/16/19
3	Solving for variables, solving equations, divide whole numbers	Handouts Algebra I Text Integrated Math I	Skills handouts, quiz 3 Textbook assignments	8/23/19
4	Rates, ratios, inequalities, decimals & place value	Handouts Algebra I Text Integrated Math I	Skills handouts, test 1 Textbook assignments	8/30/19
5	Solving two-step & multi-step equations, comparing, ordering & rounding decimals	Handouts Algebra I Text Integrated Math I	Skills handouts, quiz 4 Textbook assignments	9/6/19
6	Solving inequalities, subtracting & multiplying decimals & whole numbers	Handouts Algebra I Text Integrated Math I	Skills handouts, quiz 5 Textbook assignments	9/13/19
7	Linear functions, intercepts, slope, transformations, dividing decimals by decimals	Geometry, Handouts Algebra I Text	Skills handouts, quiz 6 Textbook assignments	9/20/19
8	Slope, multiplying decimals by powers of ten	Handouts Algebra I Text Integrated Math I	Skills handouts, test 2 Textbook assignments	9/27/19
9	Parallel & perpendicular lines, equivalent fractions	Geometry, Handouts Algebra I Text	Skills handouts, quiz 7 Textbook assignments	10/4/19
10	Transforming linear functions, simplifying fractions	Handouts Algebra I Text Integrated Math I	Skills handouts, quiz 1 Textbook assignments	10/18/19
11	Solve systems by graphing, mixed & improper fractions	Geometry, Handouts Algebra I Text	Skills handouts, quiz 2 Textbook assignments	10/25/19
12	Exponents, multiplying & dividing fractions	Handouts Algebra I Text Integrated Math I	Skills handouts, quiz 3 Textbook assignments	11/1/19
13	Factors, factoring, subtracting fractions & mixed numbers	Handouts Algebra I Text Integrated Math I	Skills handouts, test 1 Textbook assignments	11/8/19
14	Quadratic functions, fractions to decimals	Handouts Algebra I Text Integrated Math I	Skills handouts, quiz 4 Textbook assignments	11/15/19

15	Quadratic formula, organizing & display data, writing fractions as percent	Handouts Algebra I Text Integrated Math I	Skills handouts, quiz 5 Textbook assignments	11/22/19
16	Geometric sequences, percent as fractions	Handouts Algebra I Text Integrated Math I	Skills handouts, test 2 Textbook assignments	12/6/19
17	Exponential functions, length in customary system	Handouts Algebra I Text Integrated Math I	Skills handouts, quiz 6 Textbook assignments	12/13/19
18	SEMESTER EXAMS	Semester Exam	*****	12/18/19

Semester 2

Week	Topic	Resources	Activities	Due Date
1	Angles, Length & capacity in metric system	Handouts, Integrated Math I, Geometry	Skills handouts, textbook assignments	1/10/20
2	Formulas, angles, Transformations, converting customary to metric	Handouts, Integrated Math I, Geometry	Skills handouts, textbook assignments, quiz 1	1/17/20
3	Geometric proofs, parallel lines & transversals, adding & converting units of time	Handouts, Integrated Math I, Geometry	Skills handouts, textbook assignments, quiz 2	1/24/20
4	Triangles, histograms, probability	Handouts, Integrated Math I, Geometry	Skills handouts, textbook assignments, quiz 3	1/31/20
5	Triangle congruency	Integrated Math I, Geometry	Skills handouts, textbook assignments, quiz 4	2/7/20
6	Rigid motion	Integrated Math I, Geometry	Skills handouts, textbook assignments, quiz 5	2/13/20
7	Parallelograms	Integrated Math I, Geometry	Skills handouts, textbook assignments, quiz 6	2/21/20
8	Properties of rectangles, rhombuses, and squares	Integrated Math I, Geometry	Skills handouts, textbook assignments, quiz 7	2/28/20
9	Coordinate proof using distance	Integrated Math I, Geometry	Skills handouts, textbook assignments, quiz 8	3/6/20
10	Practice EOC exam	Practice EOC exam	Practice EOC exam	3/13/20
11	Practice EOC exam	Practice EOC exam	Practice EOC exam	3/20/20
12	Reflections	Integrated Math I, Geometry	textbook assignments, quiz 1	3/27/20
13	Rotations	Integrated Math I, Geometry	textbook assignments, quiz 2	4/3/20
14	Translations	Integrated Math I, Geometry	textbook assignments, quiz 3	4/17/20
15	Sequences of transformation	Integrated Math I, Geometry	textbook assignments, quiz 4	4/24/20
16	Practice EOC exam	Practice EOC exam	Practice EOC exam	5/1/20

17	Practice EOC exam	Practice EOC exam	Practice EOC exam	5/8/20
18	Counting Money	Money	Making change	5/15/20

**Snow days will alter due dates and assignments.

Grading Policy

1st 9 weeks: All work completed by students will be graded for either completion or accuracy.

2nd 9 weeks: All work completed by students will be graded for either completion or accuracy.

3rd 9 weeks: All work completed by students will be graded for either completion or accuracy.

4th 9 weeks: All work completed by students will be graded for either completion or accuracy.

Late Work Policy

Student work will be accepted up to five days past the due date. Exceptions may be made if the student makes previous arrangements with the instructor.

Viewing Grades in ASPEN

All student grades will be posted to the ASPEN Grade Book. Click on “My Grades” link on the left navigation to view points earned.

*Grades are typically posted at the beginning of each week (for the previous week).

Letter Grade Assignment

Letter Grade	Percentage
A	93-100
B	85-92
C	75-84
D	70-74
F	0-69

Course Policies

Attendance: Students need to attend all class sessions listed on the course calendar.

Participation: Students should participate in all classroom discussions and activities.

Build Rapport: Students experiencing difficulty with course work should speak with the instructor immediately!

Complete Assignments: All assignments are due by the due date; students having trouble with this should speak with the instructor.

Incomplete Policy: Under emergency/special circumstances, students may petition for an incomplete grade. All incomplete course assignments must be completed within two weeks.

Academic Dishonesty Policy: Academic dishonesty includes cheating, inventing false information, plagiarizing, and helping someone else commit an act of academic dishonesty. If any of the above are proven true, the student may face a failing grade in the class.

Student Testing Code of Ethics and Security

It is important for you as a student to know that the following guidelines are to be strictly followed. This year the TNReady EOC test will count at least 15% of your final semester grade. Your work on this test is very important and it deserves your best effort.

I understand that during testing on the days of the assessment, I am responsible for:

- Not having any electronic devices on me or in my purse/backpack/pockets
 - Including but not limited to cell phones, smart phones, smart watches, etc. **during testing or during breaks.**
 - Best practice is for students to leave devices at home or in their lockers on the day of testing.
 - If I am caught with a device during testing or during breaks, my test may be nullified, resulting in a zero as at least 15% of my semester grade, and any school level disciplinary action as deemed appropriate by the administration.

Trying my best on the test

- If I do not attempt to test (I give **no answers or randomly answer** questions) my test score may be nullified, resulting in a zero as at least 15% of my semester grade, and any school level disciplinary action as deemed appropriate by the administration.
- The testing administrators and proctors in the testing environment will determine if no answers or random answering is taking place.

- I will focus and put forth effort on the test.

Being honest and not cheating

- If I am caught cheating (taking pictures of the test, writing down and passing answers, talking to other students, looking on other computers, using software outside the testing platform), my test may be nullified, resulting in a zero as at least 15% of my semester grade, and any school level disciplinary action as deemed appropriate by the administration.

Important Note: Any form of academic dishonesty, including cheating and plagiarism, may be reported to the office of student affairs.

Course policies are subject to change. It is the student's responsibility to check for corrections or updates to the syllabus. Any changes will be posted in the classroom.