Open Navigation Bar

Integrated Math 1, Part 2

ATTENTION

Grading may take up to 7 days at semester end and during the summer semester! Submit your **last assignment two weeks** before your school's semester ends.

The prerequisites for this course is Integrated Math 1, Part 1

Welcome!

Allow 3-4 school days for an assignment to be graded. To understand the course grading, read the full course information.

Course Instructions

How This Course Works & Suggested Timeline

Submitting Your Assignments

Ask The Teacher

Meet your teacher for this course and ask a question.

Need help with the course? We offer online tutoring. Find more details about it here.

MANDATORY QUIZ

Completion

You are required to take and pass this quiz before you start the course. To prepare, read the course instructions and the "submitting your assignments" document, watch the video on the how this course works page and review the suggested timeline.

Learning Objectives & Standards Met By This Course

How to Take This Course

Each unit includes guided notes that align with the lesson videos. The lesson quizzes, unit tests, and unit exams are based on the information presented in these videos. Most lessons also include links to an optional resource or practice assignments. You're encouraged to supplement the video instruction as much as you'd like extra support or more practice in specific topics.

Complete all the quizzes and the assignment in each unit. Once the quizzes for a unit are complete, you will have access to the unit test. We recommend you complete the unit assignment before you attempt the unit test, the assignment will help you prepare. You will have access to the final after you have been approved for the semester exam. Unit 1 and unit test are completed, and your assignment is

Unit 2

Allow 3-4 school days for an assignment to be graded. To understand the course grading, read the full course information.

Unit 1 Study Guide

Completion

These guided notes correspond to the instructional videos. You may use them on the unit quizzes, unit tests, and course final.

As you work through the lessons, you are encouraged to work through the practice problem set, and check your answers against the key.

Both the guided notes and the practice problem set are for your use; they will not be submitted for grading.

1.1 Lines and Angles

Quiz 1.1

Completion

1.2 Parallel Lines and Algebra

Quiz 1.2

Completion

1.3 Proving Lines Parallel

Quiz 1.3

Completion

1.4 Slope and Equations of Parallel Lines

Quiz 1.4

Completion

1.5 Slope and Equations of Perpendicular Lines

Quiz 1.5

Completion

Unit 1 Assignment: Design a City

Completion

Unit 1 Test

Not available unless: The activity Quiz 1.1 is marked complete ...

Show more

Unit 2: Systems of Equations and Inequalities

In this unit, you will:

- Solve systems of linear equations using graphing, substitution, and elimination methods.
- Identify systems that have one solution, no solution, or infinitely many solutions.
- Apply systems of equations to solve real-world problems involving two variables.
- Write and graph systems of inequalities to systems of linear inequalities.
- Analyze overlapping solution regions for systems of inequalities and determine feasible solutions.

Unit 2 Study Guide

Completion

These guided notes correspond to the instructional videos. You may use them on the unit quizzes, unit tests, and course final.

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2.1 Solving Systems by Graphing

Quiz 2.1

Completion

2.2 Solving Systems Using Substitution

Quiz 2.2

Completion

2.3 Solving Systems Using Elimination

Quiz 2.3

Completion

2.4 Solving Special Systems

Quiz 2.4

Completion

2.5 Applying Systems

Quiz 2.5

Completion

2.6 Solving Systems of Linear Inequalities

Quiz 2.6

Completion

Unit 2 Assignment: Systems of Equations and Inequalities

Completion

Unit 2 Test

Not available unless: The activity Quiz 2.1 is marked complete ...

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Unit 3: Rigid Motion and Congruence

In this unit, you will:

- Classify triangles by side lengths and apply the Triangle Sum and Exterior Angle Theorems.
- Describe and perform rigid transformations—translations, reflections, and rotations—on the coordinate plane.
- Identify line, point, and rotational symmetry and explore compositions of transformations.
- Prove figures are congruent using triangle congruence criteria (SSS, SAS, ASA, AAS, and CPCTC).
- Solve problems involving isosceles and equilateral triangles using triangle congruence and geometric reasoning.

Unit 3 Study Guide

Completion

These guided notes correspond to the instructional videos. You may use them on the unit quizzes, unit tests, and course final.

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3.1 Classifying Triangles and Angles of Triangles

Quiz 3.1

Completion

3.2 Rigid Transformations

Quiz 3.2

Completion

3.3 Symmetry

Quiz 3.3

Completion

3.4 Compositions of Transformations

Quiz 3.4

Completion

3.5 Congruent Figures

Quiz 3.5

Completion

3.6 Congruent Triangles (SSS, SAS)

Quiz 3.6

Completion

3.7 Congruent Triangles (ASA, AAS)

Quiz 3.7

Completion

3.8 HL and CPCTC

Quiz 3.8

Completion

3.9 Isosceles and Equilateral Triangles

Quiz 3.9

Completion

Unit 3 Assignment: Transformations in Action

Completion

Unit 3 Test

Not available unless: The activity Quiz 3.1 is marked complete ...

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Unit 4: Relationships in Triangles

In this unit, you will:

- Explore triangle centers by constructing and analyzing medians, angle bisectors, perpendicular bisectors, medians, and altitudes.
- Identify and apply properties of points of concurrency (incenter, circumcenter, centroid, and orthocenter).
- Prove theorems using triangle inequality theorems, including the Triangle Inequality and Hinge Theorem.
- Use indirect reasoning to prove geometric conjectures.
- Apply triangle relationships to classify rules and angles and order problems involving triangles.

Unit 4 Study Guide

Completion

These guided notes correspond to the instructional videos. You may use them on the unit quizzes, unit tests, and course final.

As you work through the lessons, you are encouraged to work through the practice problem set, and check your answers against the key.

Both the guided notes and the practice problem set are for your use; they will not be submitted for grading.

4.1 Midsegments of a Triangle

Quiz 4.1

Completion

4.2 Perpendicular and Angle Bisectors

Quiz 4.2

Completion

4.3 Medians and Altitudes of Triangles

Quiz 4.3

Completion

4.4 Constructing Centers of Triangles

Quiz 4.4

Completion

4.5 Indirect Proofs

Quiz 4.5

Completion

4.6 Inequalities in One and Two Triangles

Quiz 4.6

Completion

Unit 4 Assignment: Points of Concurrency Poster

Completion

Unit 4 Test

Not available unless: The activity Quiz 4.1 is marked complete ...

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Unit 5: Statistics and Data Analysis

In this unit, you will:

- Classify data as quantitative or qualitative, and understand concepts like sample, population, and types of variables.
- Calculate and interpret measures of center and spread, including mean, median, mode, range, IQR, and standard deviation.
- Represent and analyze univariate data using dot plots, box-and-whisker plots, histograms, bar graphs, and pie charts.
- Create and interpret two-way frequency tables and calculate joint, marginal, and conditional relative frequencies.
- Analyze scatterplots, fit and interpret linear models, assess model accuracy using residuals, and distinguish between correlation and causation.

Unit 5 Study Guide

Completion

These guided notes correspond to the instructional videos. You may use them on the unit quizzes, unit tests, and course final.

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Both the guided notes and the practice problem set are for your use; they will not be submitted for grading.

5.1 Quantitative and Qualitative Data

Quiz 5.1

Completion

5.2 Measures of Center and Spread

Quiz 5.2

Completion

5.3 Representing Univariate Data

Quiz 5.3

Completion

5.4 Two-Way Frequency Tables

Quiz 5.4

Completion

5.5 Bivariate Data and Linear Relationships

Quiz 5.5

Completion

5.6 Trend Lines and Interpreting Linear Models

Quiz 5.6

Completion

5.7 Line of Best Fit and Evaluating Linear Models

Quiz 5.7

Completion

Unit 5 Assignment: Exploring Data

Completion

Unit 5 Test

Not available unless: The activity Quiz 5.1 is marked complete ...

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Final Exam

You will have access to the final after you have been enrolled in the course for at least 30 days and when all unit tests are completed, and your assignments are graded.

Warning: Only take the ONE attempt at the final. Are you ready to take the final? We highly recommend you take the practice final first, and if you are weak in any area, review the relevant course material before you take the assessment at the practice final. It will help you to prepare.

Remember, if you want to improve your grade, you can always retake the test in the NEXTGEN course after the final exam.

Good Luck!

Not available unless: The activity MANDATORY QUIZ is marked complete

Course Completion & Requesting a Transcript

Transcript - Before you request your school to issue a transcript the credits you earned. A transcript will list all the courses you have taken with us, including those still in progress.

Feedback - Before you request, we would appreciate your opinion on the course. Please take 5 minutes to complete the feedback form. We hope you enjoyed this course!

Course Feedback

Thank you for taking this course. Let us know what you think about it.

Request a Transcript

Notify your school that you have completed your course. Send them a transcript by email or mail. A transcript will list all the courses you have completed and those in progress.