

Seventh-Grade Mathematics, Part 2 (MATH-033-300-001)

Mathematics 7th Grade Math, Part 2 Syllabus

Course Description

Seventh Grade Math, Part 2 is divided into two units:

1. Expressions and Equations.
2. Statistics and Probability.

Prerequisites

There are no prerequisites for this course.

Course Materials

There are no textbooks required for this course. All content can be found on the course lesson pages.

Students may use a handheld graphing or scientific calculator or a Desmos online calculator (found at desmos.com/scientific or desmos.com/calculator only) during the final exam; no other calculator is allowed.

Course Outcomes

As students complete the course assignments, they will increase their knowledge, improve a 21st-century skill, and develop an attribute.



Knowledge: Seventh Grade Math, Part 2

In this course, *knowledge* refers to the subject matter and content students will learn while completing the readings, practices, quizzes, and assignments.

On successful completion of this course, students will be able to do the following:

1. Use properties of operations to generate equivalent expressions.
2. Solve real-life and mathematical problems using numerical and algebraic expressions and equations.
3. Use random sampling to draw inferences about a population.

4. Draw informal comparative inferences about two populations.
5. Investigate chance processes and develop, use, and evaluate probability models.



21st-Century Skill: *Collaboration—Flexibility*

As students complete this course's assignments, they will gain skills in *flexibility*. This skill is part of *collaboration*.



Attribute: Gratitude

This course focuses on developing the attribute of *gratitude* in the context of mathematics.

Grading and Assignments

The letter grade in this course will be based on these assignments and exams.

Grading Scale

Assignment or Exam	Grading	Percent of Total Grade
Topic Assignments	Computer Graded	20%
Application Problems and Project	Teacher Graded	15%
Module Quizzes	Computer Graded	35%
Content Guides	Teacher Graded	10%
Midcourse Quiz and Final Exam*	Computer Graded	20%

*Students must pass the final exam to earn credit for the course. Students may retake the final exam once for a fee.

Due Dates

The due dates in the course are only suggestions to help the students pace themselves. You do *not* need to complete assignments, quizzes, and exams by the due date set in the course.

Topic Assignments

Each module consists of three topics. Most topics have one assignment where students will be asked to demonstrate their knowledge of the content learned from the lesson material. In some modules, there will be an application-problem page instead of the third topic. Students will have unlimited attempts on topic assignments.

Content Guides

Every module will have a content guide to help students take notes on the key topics in the lessons. Students will submit them for a grade in modules 3, 7, 11, and 15. Content guides are graded based on completion, so students will get full points if they have everything filled out.

Students will have the option to resubmit content guides for a fee.

Application Problems and Final Project

At the end of some modules, students will have application problems that challenge them to apply what they learned to real-world problems. There are instructions, templates, and a rubric provided to help students be successful in completing this portion of the course. The 21st-century skill of *Flexibility* is taught through the completion of these projects as well. Students should integrate the practices shared in the instructions and feedback to ensure that they earn the optional micro-credential at the end of the course.

Students will have the option to resubmit application problems for a fee.

Module Quizzes

At the end of each module, students will take a quiz that covers all topics taught. While module quizzes can *not* be resubmitted for a fee, they will allow for two attempts on each question.

Exams

Students will complete these exams during the course.

Midcourse Quiz: The midcourse quiz is found in module 8 and covers all of the material learned in modules 1–7. The midcourse quiz can *not* be resubmitted for a fee, but like module quizzes, they allow for two attempts on each question.

Final Exam: The final exam is found in module 16 and is a comprehensive final that covers all material learned in the course from modules 1–15.

Students must pass the final exam with a 60% or higher to earn credit for the course; they may retake it once, for a fee, upon request.

Final Grade

The letter grade will be calculated according to these percentages.

<i>Grading Scale</i>	
Percent to Letter Grade Calculation	
A	100%–93%
A–	<93%–90%
B+	<90%–87%
B	<87%–83%
B–	<83%–80%
C+	<80%–77%
C	<77%–73%
C–	<73%–70%
D+	<70%–67%
D	<67%–63%
D–	<63%–60%
F (fail)	<60%–0%