



K-12
TEXAS TECH

Mathematics, Grade 6 B v8.0 – Syllabus

Course Name

MATHG6-B

Mathematics, Grade 6 v8.0 – Semester B

Course Information

MATHG6-B is the second semester of this two-semester course.

How do mathematicians think, write, and speak? Find out in Grade 6 Mathematics, where students will experience new ways of solving problems through interactive and engaging activities. With a focus on hands-on learning and real-world application, students will be exposed to foundational concepts needed for higher-level math study, including integer operations, equations, and statistics.

Instructional time for Grade 6 Mathematics will emphasize five areas:

1. performing all four operations with integers, positive decimals, and positive fractions with procedural fluency
2. exploring and applying concepts of ratios, rates, and percentages to solve problems
3. creating, interpreting, and using expressions and equations
4. extending geometric reasoning to plotting points on the coordinate plane, area, and volume of geometric figures
5. extending understanding of statistical thinking

Course Delivery Method

Online

Contacting Your Instructor

You may contact your instructor using your Canvas Inbox. Technical support is available 24/7 at [TTU K-12](#).

Course Topics

After completing this course, the students should have increased knowledge of

1. performing all four operations with integers, positive decimals, and positive fractions with procedural fluency
2. exploring and applying concepts of ratios, rates, and percentages to solve problems
3. creating, interpreting, and using expressions and equations
4. extending geometric reasoning to plotting points on the coordinate plane, area, and volume of geometric figures
5. extending understanding of statistical thinking

Textbook and Materials

No textbooks required. All content is within Canvas.

Materials

- Printer

Technical Requirements

- Internet access – preferably high speed (for accessing Canvas)
- browser (we recommend Chrome)
- supported browser plugins and settings
The following plugins and settings may be required to use our courses.
 - JavaScript enabled
 - Cookies enabled
 - Java installed
- Email
- Printing capabilities
- Adobe Reader (download from [Adobe.com](#))
- Audio and video capabilities (for watching/listening to course content)
- PDF app (free options available)

Technical Skill Requirements

Be comfortable with the following:

- accessing online learning materials via Canvas

- Internet search engines and browsers (we recommend Chrome)
- uploading assignments into Canvas (there will be instructions for uploading assignments)

Course Pacing

This course is designed to be completed in 18 weeks.

- Print this guide and use a calendar to fill in your goal dates for completing each Module.
- Note that you must have a grade of 70 or above on a Discussion-Based Assessment (DBA) in order to continue moving forward in the course. DBAs occur every other lesson.
- To achieve success, students are expected to submit work in each course weekly.
- Students can learn at their own pace; however, "any pace" still means that students must make progress in the course every week.
- Post the pace guide in a place where you and your Parent or Guardian will see it every day (on the refrigerator or next to the computer). Give yourself a check every time you complete a task, and celebrate your efforts!

Please Note: You may see content or assignments labelled as “advanced” in the course material. Please **disregard this label – **all** course material is required material.*

Weeks	Lessons	Due Date (you write this in)
1	05.00 Ratios and Rates Introduction 05.01 Ratios 05.02 Rates	
2	05.03 Two-Column Tables 05.04 Three-Column Tables	
3	05.05 Percentages 05.06 Multi-Step Percent Problems 05.07 Proportions	
4	05.08 Ratios and Rates Practice Exam 05.09 Ratios and Rates Discussion-Based Assessment *05.10 Ratios and Rates Exam	

Weeks	Lessons	Due Date (you write this in)
5	06.00 Statistics Introduction 06.01 Statistical Measurements	
6	06.02 Box Plots 06.03 Histograms and Line Plots	
7	06.04 Effects of Changes in Data 06.05 Appropriate Measures 06.06 Comparing Data	
8	06.07 Making Predictions 06.08 Statistics Practice Exam *06.10 Statistics Exam	
9	07.00 Geometry Introduction 07.01 Plotting Ordered Pairs	
10	07.02 Distance on the Coordinate Plane 07.03 Perimeter and Area on the Coordinate Plane	
11	07.04 Finding Area Using Triangles and Rectangles 07.05 Area of Polygons and Composite Figures 07.06 Surface Area of Rectangular Prisms and Pyramids	
12	07.07 Volume of Rectangular Prisms 07.08 Geometry Practice Exam	
13	07.09 Geometry Discussion-Based Assessment *07.10 Geometry Exam	
14	07.11 Semester B Practice Exam	
15	*Final Exam: Part One	
16	*Final Exam: Part Two	
17	Floating Vacation Week	
18	Floating Vacation Week	

Course Credit

Your grade will be calculated as follows:

- formative assessments (50%)

- summative assessments (20%)
- summative final exam (30%)

Assignments are labeled as “summative” or “formative” under Grades in Canvas.

Course Completion and Extensions

- Students may not complete the course in less than 30 days.
- All courses expire six months after the enrollment date.

Academic Integrity

It is the aim of the faculty of Texas Tech University to foster a spirit of complete honesty and high standard of integrity. The attempt of students to present as their own any work not honestly performed is regarded by the faculty and administration as a most serious offense and renders the offenders liable to serious consequences, possibly suspension.

“Scholastic dishonesty” includes, but is not limited to, cheating, plagiarism, collusion, falsifying academic records, misrepresenting facts, and any act designed to give unfair academic advantage to the student (such as, but not limited to, submission of essentially the same written assignment for two courses without the prior permission of the instructor) or the attempt to commit such an act.

Student/Parent Expectations

You will be expected to log into the Canvas course regularly to be aware of possible announcements/reminders and to pace your student’s progress in the course.

The following are prohibited while using the Canvas interface:

- spamming;
- hacking; and
- using TTU or Canvas email for commercial purposes;

Inappropriate behavior shall result in consequences ranging from a request to correct the problem, to removal from the course or even the university, depending on the severity of the behavior. Disciplinary actions will be taken according to the TTU K-12 Student Handbook.

Communication

- You can expect a reply from your instructor within 2 business days.
- Use the Canvas Inbox for sending messages to your instructor.

Submitting Assignments

You will submit all assignments through Canvas, rather than by mail or email.

Technical Difficulties

Getting Help

For student assistance with Canvas, visit [TTU K-12 Support](#).

Computer Problems

A working computer is necessary for online coursework. Computer problems will not be accepted as a valid reason for failure to complete course activities within the allotted time frame. Identify a second computer, before the course begins, that you can use if you experience computer problems.

Server Problems

When the Canvas server needs to be taken down for maintenance, the Canvas administrator will post an announcement in your course informing you of the time and date. If the server experiences unforeseen problems, your course instructor will notify you.

Lost or Corrupted Files

You must keep/save a copy of every project/assignment on an external disk or personal computer. In the event of any kind of technology failure (e.g., Canvas server crash or virus infection, students' own computer problems, loss of files in cyberspace, etc.) or any disputes, the instructor may request or require you to resubmit the files. In some instances, the instructor may need to open another attempt within Canvas, so communication with your instructor is critical in these circumstances.