Elementary Mathematics Grade 4 B v7.0 – Syllabus

Course Name

MATHG4-B

Elementary Mathematics Grade 4 B v7.0 – Semester B

Course Information

MATHG4-B is the second semester of this two-semester course.

In Math Grade 4, students will multiply and divide multi-digit whole numbers using different strategies and a standard algorithm. The course provides the opportunity for students to see the relationship between fractions and decimals and introduces addition and subtraction of each. Using a protractor to draw and measure angles is another focus of the course. Other engaging activities include learning about measurement and using median, mode, and range as ways to interpret data.

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

- understanding mixed numbers
- finding equivalent fractions and mixed numbers using different strategies
- adding fractions and mixed numbers
- subtracting fractions and mixed numbers
- multiplying a fraction by a whole number

- understanding fraction and decimal relationships
- working with decimals to the hundredths place
- finding median, mode, and range of fractions and decimals
- stem-and-leaf plots with fractions and decimals
- line plots with fractions and decimals
- measuring units of measure in the metric and customary system
- converting units of measure in the metric and customary system
- measuring and drawing angles

Textbook and Materials

No textbooks required. All content is within Canvas.

Materials

- printer
- cell phone or scanner
- headset or earbuds
- notebook
- pens
- pencils
- erasers
- scissors
- coloring materials (markers, crayons, colored pencils)
- glue
- tape
- stapler
- ruler
- printer paper
- lined paper
- colored paper
- protractor
- general household objects for activities

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 16 weeks.

- Print this guide and use a calendar to fill in your goal dates for completing each Module.
- 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!

Weeks	Lessons	Due Date *(you write this in)*
1	08.00 Equivalent Fractions and Mixed Numbers: Pretest 08.01 Understanding Mixed Numbers 08.02 Equivalent Fractions with Models	
2	08.03 Equivalent Fractions with Number Lines 08.04 Equivalent Fractions with Equations 08.05 Using Equivalent Fractions to Compare and Order	

Weeks	Lessons	Due Date *(you write this in)*
3	08.06 Using Benchmark Fractions to Compare and Order 08.07 Equivalent Fractions and Mixed Numbers: Review 08.08 Equivalent Fractions and Mixed Numbers: Assessment	
4	09.00 Working with Fractions and Mixed Numbers: Pretest 09.01 Decomposing Fractions and Mixed Numbers 09.02 Adding and Subtracting Fractions with Models	
5	09.03 Adding and Subtracting Fractions with a Number Line 09.04 Adding Fractions with A Standard Algorithm 09.05 Subtracting Fractions with A Standard Algorithm	
6	09.06 Exploring Fraction Multiplication 09.07 Working with Fractions and Mixed Numbers: Discussion-Based Assessment 09.08 Working with Fractions and Mixed Numbers: Assessment	
7	10.00 Decimal Numbers: Pretest 10.01 Decimals Less Than 1 10.02 Decimals Greater Than 1 10.03 Comparing and Ordering Decimals	
8	10.04 Adding and Subtracting Decimals 10.05 Solving Money Problems with Decimals 10.06 Decimal Numbers: Review 10.07 Decimal Numbers: Assessment	
9	11.00 Data with Fractions and Decimals: Pretest 11.01 Interpreting Fraction and Decimal Data 11.02 Plotting with Fractions	
10	11.03 Plotting with Decimals 11.04 Data with Fractions and Decimals: Discussion-Based Assessment 11.05 Data with Fractions and Decimals: Assessment	
11	12.00 Measurement with Metric Units: Pretest 12.01 Measuring Metric Lengths 12.02 Converting Metric Lengths 12.03 Metric Units of Volume	
12	12.04 Metric Units of Mass 12.05 Measuring Temperature 12.06 Measurement with Metric Units: Review 12.07 Measurement with Metric Units: Assessment	

Weeks	Lessons	Due Date *(you write this in)*
13	13.00 Measurement with Customary Units: Pretest 13.01 Measuring Customary Lengths 13.02 Converting Customary Lengths 13.03 Customary Units of Volume	
14	13.04 Customary Units of Weight 13.05 Converting Units of Time 13.06 Measurement with Customary Units: Discussion-Based Assessment 13.07 Measurement with Customary Units: Assessment	
15	14.00 Measuring Angles: Pretest 14.01 Types of Angles 14.02 Measuring with a Protractor	
16	14.03 Benchmark and Additive Angles 14.04 Drawing with a Protractor 14.05 Measuring Angles: Review 14.06 Measuring Angles: Assessment	

Course Credit

Your grade will be calculated as follows:

- formative assessments (50%)
- summative assessments (50%)

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.

Artificial Intelligence (AI) Use Policy

This policy covers any generative AI tool, such as ChatGTP, Elicit, Photo Math, etc. This includes text and artwork/graphics/video/audio, etc.

All work submitted in this course must be your own. You may not use artificial intelligence tools to complete your assignments in this course.

If an instructor suspects that an assignment is not the work of the student, it will receive a score of zero. The instructor will message the student or provide feedback on the assignment indicating the need to schedule a one-on-one video conference, during which the student will be required to demonstrate their skills or knowledge through an alternative or mutually agreed-upon assignment. The grade of the alternate or agreed upon assignment will be determined at the instructor's discretion with the highest possible score being 70%.

If it is determined that a student has violated final exam directions on Final Exam A or CBE Set 1, the exam will be scored as zero. The student may take Final Exam B or CBE Set 2 with the highest possible score being 70%.

The incident will be reported to Texas Tech K-12 Administration and documented in the student's file. Continued violations of Texas Tech University's Academic Integrity Policy will result in the removal of the student from the program.

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.