Elementary Mathematics Grade 1 A v7.0 – Syllabus

Course Name

MATHG1-A

Elementary Mathematics Grade 1 A v7.0 – Semester A

Course Information

MATHG1-A is the first semester of this two-semester course.

In Math Grade 1, students will use strategies to solve word problems, skip count, and use math strategies to add and subtract. The course provides the opportunity for students to develop an understanding of place value using tens and ones. Students will use this knowledge to add and subtract within 100. Defining and non-defining attributes of shapes is another focus of the course. Other engaging hands-on activities include money, time, data, and measurement.

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

- Solving addition equations to 10
- Solving subtraction equations to 10
- Solving addition and subtraction word problems to 10
- Using counting on to solve
- Using doubles strategies

- Using a ten frame
- Counting back to subtract
- Subtracting by adding
- Solving word problems using number facts
- Counting to 120 using a number chart
- Skip counting
- Counting to 120 using a number line
- Gathering groups of 10
- Composing and decomposing two-digit numbers
- Reading numbers in standard, expanded, and written form
- Writing numbers in standard and expanded form
- Finding one more, one less, ten more, ten less
- Counting to 120 using tens and ones
- Compare tens and ones
- Comparing using greater than, less than, or equal to
- Plot, order, and compare tens and ones
- Identify attributes of 2-D shapes
- Drawing and building 2-D shapes
- Creating and combining 2-D shapes
- Identifying and creating equal parts
- Explaining attributes of 3-D shapes
- Composing and identifying 3-D shapes

Textbook and Materials

No textbooks required. All content is within Canvas.

Materials

- pencil
- eraser
- scissors
- glue
- 6-inch ruler (printable resource)
- 15-centimeter ruler (printable resource)
- Interactive Notebook—spiral or composition notebook
- paper
- colored paper
- counters or manipulatives
- common household items (cereal, rocks, paperclips, beads, etc.)
- toothpicks
- marshmallows

- four socks
- three fruits
- 2 different types of cereal

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.

- 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	01.00 Addition and Subtraction: Pretest 01.01 Addition Equations to 10 01.02 Putting Together 01.03 Taking From	
2	01.04 Solve Subtraction Equations 01.05 Solve Word Problems 01.06 Addition and Subtraction: Discussion-Based Assessment 01.07 Addition and Subtraction: Assessment	
3	02.00 Add and Subtract Within 10: Pretest 02.01 Counting On 02.02 Doubles Strategies 02.03 Using a Ten Frame	
4	02.04 Count Back to Subtract 02.05 Subtract by Adding 02.06 Addition and Subtraction	
5	02.07 Add and Subtract Within 10: Review 02.08 Add and Subtract Within 10: Assessment	
6	03.00 Extend the Counting Sequence: Pretest 03.01 Count to 120 03.02 Skip Counting 03.03 Count Using a Number Line 03.04 Read and Write Numbers	
7	03.05 Extend the Counting Sequence: Discussion-Based Assessment 03.06 Extend the Counting Sequence: Assessment	
8	04.00 Understanding Place Value: Pretest 04.01 Tens and Ones 04.02 Gathering Groups of Ten 04.03 Count to 100 04.04 Pull Apart Numbers	

Weeks	Lessons	Due Date *(you write this in)*
9	04.05 Written, Standard, and Expanded Form 04.06 Break Apart Numbers 04.07 Understanding Place Value: Review 04.08 Understanding Place Value: Assessment	
10	05.00 Two-Digit Numbers: Pretest 05.01 One More, One Less, Ten More, Ten Less 05.02 Count to 120 Using Tens and Ones 05.03 Compare Tens and Ones	
11	05.04 Greater Than, Less Than, or Equal to 05.05 Plot, Order, and Compare 05.06 Two-Digit Numbers: Discussion-Based Assessment 05.07 Two-Digit Numbers: Assessment	
12	06.00 Shapes and Their Attributes: Pretest 06.01 Attributes of 2-D Shapes 06.02 Draw and Build 2-D Shapes	
13	06.03 Create and Combine 2-D Shapes 06.04 Identify and Create Equal Parts 06.05 Attributes of 3-D Shapes	
14	06.06 Compose and Identify 3-D Shapes 06.07 Shapes and Their Attributes: Review 06.08 Shapes and Their Attributes: Assessment	
15	07.00 Addition Facts to 20: Pretest 07.01 Counting On with Open Number Lines 07.02 Adding with Doubles	
16	07.03 Making Tens 07.04 Addition Word Problems 07.05 Addition Facts to 20: Discussion-Based Assessment 07.06 Addition Facts to 20: Assessment	
17	Floating Vacation Week	
18	Floating Vacation Week	

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.

In addition to expectations above, the nature of a first grade class requires that parents/adults are actively involved in their student's instruction. First grade is a time where students are still learning to read, so adults will need to help read the daily instructions to them and assist them in their activities.

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.