

Math 4

Fall 2022 and Spring 2023
T/ TH 4 PM ET

Instructor: Dora Ward

Office Hours: by Appointment, please contact me through Edmodo or Email and I will set up a time to help you. I'm here to help you succeed, don't be afraid to reach out

I. Rationale:

Welcome to 4th grade! We will be developing more advanced arithmetic skills like multiplying large numbers, dividing, and building a greater understanding of how numbers can work in the real world.

II. Course Aims and Outcomes:

A. Aims

- Graphing and learning how to recognize patterns
- Large Numbers and place value to better understand numbers and relationships between them
- Multi-digit multiplication so you can use the big numbers
- Time and measurement, so you can apply all your math skills
- Division
- Rectangles, trapezoids, and angles
- Fractions
- Decimals

III. Format and Procedures:

This class will consist of two meetings a week which will start at 4y6cx PM ET, please make sure you know what time that means based on where you live.

We will have a daily assignment, even on days where we don't have class. However, there will be no assignments on feasts. Saint Athanasius is on the new calendar, if you are on the old calendar, please talk to me and we will figure out a plan so you can celebrate your feasts.

For the first minutes of class, you will be completely free to ask any questions about this class

IV. My Assumptions

V. Course Requirements:

1. Prerequisites: This class assumes that you will have completed math 3. You should know how to add, subtract, and begin to have an understanding of multiplication. You do not have to have all your multiplication facts memorized.
2. Class attendance and participation policy: There are always reasons why you might not be able to attend class. If you won't be able to be in class, all classes will be recorded and you can watch any lessons you miss. If you have a family emergency and cannot do the work, please talk to me and we will work something out which will lessen your load.

Work is expected to be turned in at the end of each week and will be graded mostly on participation except for 2 random problems. I will have these graded as quickly as possible, with the goal of having them done by the end of Monday. You may turn work in late, but it will not be a priority for me to grade over the new work coming in.

3. Course readings:
 - (a) Required text(s): Math Mammoth Grade 4
 - (b) projects: We will have several around the house projects for you to complete.

VI. Expectations for Parents

- Set aside a calm, quiet, distraction-free space for your child(ren) to work every day.
- Ensure virtual learning equipment is available and charged.
- Establish routines and expectations and a basic schedule for completing classwork.
- Help students 'own' their learning.
- Check Edmodo for communications from teachers and help students print off resources that are provided.
- Stay abreast of teacher feedback in the form of grades or other messages.
- Proctor tests, quizzes, or other assessments as scheduled by the teacher. Parents ensure academic integrity because they are on the "live" side of the screen.
- Communicate with teachers regularly via email or Edmodo regarding any questions or issues that arise.
- If your child is having trouble completing work, email teachers to schedule a time for an online meeting.

VII. Grading Procedures

Grades will be weighted on the following scale:

- (a) Class participation (25 %)
- (b) Homework (15 %)
- (c) Projects (20 %)
- (d) Tests (30 %)

VIII. Academic Integrity

Each student in this course is expected to abide by the Cornell University Code of Academic Integrity. Any work submitted by a student in this course for academic credit will be the student's own work.

You are encouraged to study together and to discuss information and concepts covered in lecture and the sections with other students. One great way to assess what you know is to teach the idea to a peer! You may also work together on problem sets and give "consulting" help to or receive "consulting" help from your peers. However, this permissible cooperation should never involve one student having possession of a copy of all or part of work done by someone else, in any form (e.g. email, Word doc, Box file, Google sheet, or a hard copy). Assignments that have been previously submitted in another course may not be submitted for this course.

Should copying occur, both the student who copied work from another student and the student who gave material to be copied will both automatically receive a zero for the assignment. Penalty for violation of this Code can also be extended to include failure of the course and University disciplinary action.

During examinations, you must do your own work. Talking or discussion is not permitted during the examinations, nor may you compare papers, copy from others, or collaborate in any way. Any collaborative behavior during the examinations will result in failure of the exam and may lead to failure of the course and University disciplinary action.

IX. Tentative Course Schedule

Week	At home work	In Class
8/16-8/20	Syllabus, scavenger hunt	
8/22-8/27	Addition Review; Adding in columns, Subtraction Review, Subtraction in columns, patterns and mental math	Tuesday: Addition Thursday: Subtraction
8/30-9/2	Patterns in pascal's triangle, Bar models in Addition and subtractions, Order of operations, Estimating, Money and Discounts,	Tuesday: Patterns and models Thursday: Money
9/5-9/9	NO CLASS ON 9/8 FOR NATIVITY OF THE THEOTOKOS! Making Bar Graphs, Line graphs, rounding	Tuesday: Graphing Thursday: No Class
9/12-9/16	NO CLASS ON 9/14 FOR EXALTATION OF THE CROSS Calculate and Estimate money amounts, Review Chapter 1, Test for chapter 1, shopping project	Tuesday: Go over shopping project Thursday: No class
9/19-9/23	Chapter 2!	Tuesday: Thousands

	Thousands, At the Edge of Whole Thousands, More thousands, Practicing with thousands, Place value with thousands, Comparing with Thousands	Thursday: Place Value
9/26-9/30	Adding and Subtracting Big numbers, Rounding and Estimating with Large Numbers, Multiples of 10, 100, and 1000, Mixed review, chapter 2 review,	Tuesday: Large Numbers Thursday: Review
10/3-10/7	chapter 2 Test, Project Chapter 3! Understanding Multiplications, Multiplication Tables, Scales puzzles	Tuesday: Explain project Thursday: Multiplication
10/10-10/14	Multiplying by whole tens and hundreds, Multiplying in parts 1 and 2, multiplying in Parts–Area Model, Multiplying money amounts	Tuesday: Multiplying by parts Thursday: Area Models
10/17-10/21	Estimating in Multiplication, Multiplying in Columns- The easy way 1 and 2, Multiplying in Columns - the standard way, Multiplying in columns practice	Tuesday: Estimating Thursday: Column Multiplication
10/24-10/28	Order of Operations Again, Money and change, So many of the same thing, Multiplying two digit numbers in parts, multiplying whole tens in columns	Tuesday: Money Thursday: Multiplying two digit numbers
10/31-11/4	multiplying in parts: another way, The standard Multiplication algorithm with a two digit number multiplier, Mixed review, review, project	Tuesday: Standard Multiplication Algorithm Thursday: Review, describe project
11/7-11/11	Chapter 3 Test Chapter 4! Time Units, Elapsed time 1, the 24 hour clock, Elapsed time 2, Elapsed Time 3	Tuesday: Time Thursday: 24 hour clocks
11/14-11/18	Measuring temperature: Celsius, Measuring temperature: Fahrenheit, Temperature Line Graphs, Measuring Length, More measuring in Inches and Centimeters	Tuesday: Temperature Thursday: Length
11/21-11/25	Thanksgiving Break! There is no homework for this week.	

11/28-12/2	Feet Yards and Miles, Metric Units for Measuring Length, Metric Units of Weight, Metric Units of Volume, Mixed Review	Tuesday: Lengths Thursday: Weight and Volume
12/5-12/9	Review, Project, Chapter 4 test	Tuesday: Review Thursday: Go over project
12/12-12/16	End of the semester review, what does next semester look like, catch up with late work	Tuesday: Review Thursday: Look at the next semester

Week	At home work	In Class
1/10-1/13	Chapter 5! Review of Division, Division terms and division with zero, Dividing with whole tens and hundred, Order of Operations and Division, The remainder 1	Tuesday: Division review Thursday: Dividing in the Order of Operations
1/16-1/20	The Remainder 2 and 3, Long division 1, 2, and 3	Tuesday: Remainder Thursday: Long division
1/23-1/27	Long division with 4-digit numbers, More long division, Remainder Problems, Long division with money, Long division Crossword	Tuesday: Large numbers and Long Division Thursday: Long division with money
1/30-2/3	NO CLASS ON 2/2 FOR PRESENTATION OF THE LORD! Average, Fractional parts with division, problems with fractional parts, problems to solve, divisibility	Tuesday: Averages and Fractional parts Thursday: No class or work
2/6-2/10	Prime Numbers, Finding Factors, Mixed Review, Review, Project	Tuesday: Primes and Factors Thursday: Review
2/13-2/17	Test 5 Chapter 6! Area of Rectangles, Problem Solving: Area of Rectangles, Area and Perimeter, Lines, Rays, and Angles	Tuesday: Area of Rectangles Thursday: Perimeter

2/20-2/24	Measuring angles, Drawing Angles, Estimating Angles, Angle Problems	Tuesday: Measuring and Drawing Angles Thursday:
2/27-3/3	No school for Clean Week break.	
3/6-3/10	Parallel and Perpendicular lines, Parallelograms, Triangles, Line Symmetry, Mixed Review	Tuesday: Parallel lines Thursday: triangles
3/13-3/17	Review, Project, Test 6 Chapter 7! One whole and it's fractional parts	Tuesday: Review Thursday: Whole and fractions
3/20-3/24	Mixed Numbers, Mixed numbers and fractions, Adding Fractions, Adding Mixed Numbers, Equivalent fractions, Subtracting Fractions and Mixed numbers	Tuesday: Mixed Numbers Thursday: Adding and Subtracting Fractions
3/27-3/31	Comparing Fractions, Multiplying Fractions by whole numbers, practicing with fractions, Mixed review, Review	Tuesday: Comparing fractions Thursday: Review
4/3-4/7	Project, Test 7	Tuesday: Project overview Thursday: Test
4/10-4/14	No school for Holy Week break	
4/17-4/21	No School for bright week break	
4/24-4/28	Decimal Numbers—Tenths, Adding and Subtracting with tenths, Two decimal Digits—hundredths, Add and subtract decimals in columns	Tuesday: 10ths and hundredths Thursday: Add and subtract decimals in columns
5/1-5/5	Add and subtract decimals mentally, use decimals with measuring units, Mixed review, review	Tuesday: Thursday: Review
5/8-5/12	Project, test, End of the Year Review	Tuesday: Project overview Thursday: End of the year review
5/15-5/29	End of the year review, final test	Tuesday: End of the year review Thursday: Test

