

Gray Matter 2019-2020 Course Catalog

Math

High School Math (Session 1)

Teacher: Katy Gordon

Grades: 8, 9, 10, 11, 12

Class Schedule: Tuesday/Thursday

Class Time: 11:00 am – 12:15 pm

Duration: 2.5 hours per week, 32 wks

Description: High School Math (Session 1) is a work-at-your-own pace math course designed for students taking Algebra 1, Geometry, Algebra 2, Pre-Calculus, or Calculus using Math-U-See curricula. Student in all of these high school levels will work in the same classroom getting individual assistance from Mrs. Gordon. It's basically one-on-one tutoring in a classroom setting.

We have what is called a flipped classroom, meaning you watch the Math-U-See lesson using the DVD (see Class Materials) at home and attempt the first page of the workbook for that lesson. This prepares you for our classwork and helps you to ask questions on anything you don't understand. I help you figure out where and why you may be struggling, then individualize the teaching for you. You finish the pages from the workbook in class or at home, grade them in class, and take the test in class. I want you to know, **"Yes, You CAN do math!"**

I help my students to work at a pace appropriate for their abilities. I believe there is no such thing as "behind in math." You are where you are, for who you are, this moment. The question becomes, "Where do you want to go from here?" I'm available to help you achieve your mathematics goals. If your goal is to finish the level you are on within the school year, you should be averaging a lesson per week (video, practice page, review page, and test).

If you are unsure of your student's math level, go to www.mathusee.com/ to find free placement tests.

In Algebra 1, you use all your previous knowledge about whole numbers, fractions, decimals, negatives, exponents, and solving equations to develop stronger problem solving strategies. This includes more work with exponents and solving more complex equations as well as graphing, simultaneous equations, polynomials, unit multipliers, and more. The goal is to use math as the problem-solving tool for which is was designed to achieve deeper understanding of each lesson and acquire a functioning knowledge of math for life-long use. Even if you never solve another equation after school, you will use these problem-solving strategies in your everyday life.

In Geometry, we will learn about points, lines, planes, angles, circles, triangles, quadrilaterals, the Pythagorean Theorem, conic sections, proofs, and more. This helps you obtain a deeper understanding, lifelong learning, and a functioning knowledge of how to use math as the problem-solving tool for which it is designed.

In Algebra 2, we explore topics such factoring polynomials, the quadratic formula, and graphing conic sections. Next is Pre-Calculus where we learn trigonometry, the identities, polar equations, logarithms, sequences, and limits in preparation for Calculus. If you have completed both Algebra II and Pre-Calculus, I can help you prepare for the AP Calculus test. This helps you obtain a deeper understanding, life-long learning, and a functioning knowledge of how to use math as the problem-solving tool for which it is designed.

What do I buy? We use the Math-U-See curriculum and manipulatives. Students are required to have the Instruction DVD, student workbook and test book (sold on Math-U-See website as a student pack) prior to the first day. We also highly recommend the Instructor Manual. Just a caution, it can take a couple of weeks to arrive through the mail. I have a class copy of the Instructor Manual, manipulatives, and any supplementary material.

Can I just skip Pre-Algebra? We strongly discourage skipping the Pre-Algebra course and moving directly from Zeta into Algebra.

Prerequisites: Placement test results. Go to www.mathusee.com/ to find free placement tests.

Homework: Students can expect to spend about 1-3 hour per week on math outside of class. They will be asked to watch the Math-U-See video for that lesson at home before starting each new chapter. They will be expected to complete at least one practice page, one review page, and the test for each lesson.

Class Materials: Math-U-See Algebra 1 Level Up Base Set
OR Math-U-See Geometry Universal Set
OR Math-U-See Algebra 2 Universal Set
OR Math-U-See Pre-Calculus Universal Set
OR Math-U-See Calculus Student Pack OR Larson Calculus

You can find the student packs at <http://store.mathusee.com/> and other online sources

Payment Options:

1. Full tuition of \$1144.00 is due at time of registration.
2. Two (2) installments.
3. Four (4) installments.
4. Nine (9) installments of \$127.12. The first monthly tuition payment is due at time of registration. Subsequent monthly payments of \$127.12 will begin the month following the month you registered and will continue until all additional eight (8) payments are collected.

High School Math (Session 2)

Teacher: Katy Gordon

Grades: 8, 9, 10, 11, 12

Class Schedule: Tuesday/Thursday

Class Time: 1:00 – 2:15pm

Duration: 2.5 hours per week, 32 wks

Description: High School Math (Session 2) is a work-at-your-own pace math course designed for students taking Algebra 1, Geometry, Algebra 2, Pre-Calculus, or Calculus using Math-U-See curricula. Student in all of these high school levels will work in the same classroom getting individual assistance from Mrs. Gordon. It's basically one-on-one tutoring in a classroom setting.

We have what is called a flipped classroom, meaning you watch the Math-U-See lesson using the DVD (see Class Materials) at home and attempt the first page of the workbook for that lesson. This prepares you for our classwork and helps you to ask questions on anything you don't understand. I help you figure out where and why you may be struggling, then individualize the teaching for you. You finish the pages from the workbook in class or at home, grade them in class, and take the test in class. I want you to know, "**Yes, You CAN do math!**"

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In Geometry, we will learn about points, lines, planes, angles, circles, triangles, quadrilaterals, the Pythagorean Theorem, conic sections, proofs, and more. This helps you obtain a deeper understanding, lifelong learning, and a functioning knowledge of how to use math as the problem-solving tool for which it is designed.

In Algebra 2, we explore topics such factoring polynomials, the quadratic formula, and graphing conic sections. Next is Pre-Calculus where we learn trigonometry, the identities, polar equations, logarithms, sequences, and limits in preparation for Calculus. If you have completed both Algebra II and Pre-Calculus, I can help you prepare for the AP Calculus test. This helps you obtain a deeper understanding, life-long learning, and a functioning knowledge of how to use math as the problem-solving tool for which it is designed.

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Can I just skip Pre-Algebra? We strongly discourage skipping the Pre-Algebra course and moving directly from Zeta into Algebra.

Prerequisites: Placement test results. Go to www.mathusee.com/ to find free placement tests.

Homework: Students can expect to spend about 1-3 hour per week on math outside of class. They will be asked to watch the Math-U-See video for that lesson at home before starting each new chapter. They will be expected to complete at least one practice page, one review page, and the test for each lesson.

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OR Math-U-See Geometry Universal Set
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Middle School Math (Session 1)

Teacher: Katy Gordon

Grades: 6, 7, 8, 9

Class Schedule: Monday/Wednesday

Class Time: 9:30 – 10:45 am

Duration: 2.5 hours per week, 32 wks

Description: Middle School Math (Session 1) is a work-at-your-own pace math course designed for students taking Epsilon, Zeta, or Pre-Algebra using Math-U-See curricula. Student in all of these middle school levels will work in the same classroom getting individual assistance from Mrs. Gordon. It's basically one-on-one tutoring in a classroom setting.

In Middle School Math, you master fractions (when starting at the Epsilon level) or decimals (starting at the Zeta level) or negative numbers, order of operations, and solving for the unknown (when starting at the Pre-Algebra level). (See the placement tests below to help you pick the math level on which you should begin.) Together we use discovery learning and hands-on activities to understand the basic concepts for your level. This helps you obtain a deeper understanding, life-long learning, and a functioning knowledge of how to use math as the problem-solving tool for which it is designed.

We have what is called a flipped classroom, meaning you watch the lesson using the learning the Math-U-See DVD (or digital streaming videos in the digital pack) at home and attempt the first page of the workbook for that lesson. This prepares you for our classwork and helps you to ask questions on anything you don't understand. I help you figure out where and why you may be struggling, then individualize the teaching for you. I want you to know, "**Yes, You CAN do math!**"

I help my students to work at a pace appropriate for their abilities. I believe there is no such thing as "behind in math." You are where you are, for who you are, this moment. The question becomes, "Where do you want to go from here?" I'm available to help you achieve your mathematics goals. If your goal is to finish the level you are on within the school year, you should be averaging a lesson per week (video, online quiz, practice page, review page, and test). The in-class activities are based on a pace of one lesson per week.

What do I buy? Which Math-U-See level do I pick? We use the Math-U-See curriculum and manipulatives. Students are required to have the Instruction DVD, student workbook and test book (sold on Math-U-See website as a student pack) prior to the first day. We also highly recommend the Instructor Manual.

Just a caution: it can take a couple of weeks to arrive through the mail. I provide the teaching textbooks, manipulatives, and any supplementary material. Both Epsilon and Zeta require mastery of the basic operations of adding, subtracting, multiplying, and dividing.

Go to www.mathusee.com/ to find free placement tests.

Prerequisites: Placement test results. Go to www.mathusee.com/ to find free placement tests.

Homework: Students can expect to spend about 1-3 hour per week on math outside of class. They will be asked to watch the Math-U-See video for that lesson at home before starting each new chapter. They will be expected to complete at least one practice page, one review page, and the test for each lesson.

Class Materials: Math-U-See Epsilon Level Up Set
OR Math-U-See Zeta Level Up Base Set
OR Math-U-See Pre-Algebra Level Up Base Set

You can find this set at <http://store.mathusee.com/> and other online sources

Payment Options:

1. Full tuition of \$1,106.00 is due at time of registration.
 2. Two (2) installments.
 3. Four (4) installments.
 4. Nine (9) monthly payments of \$122.92. The first monthly tuition payment is due at time of registration. Subsequent monthly payments of \$122.92 will begin the month following the month you registered and will continue until all additional eight (8) payments are collected.
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Middle School Math (Session 2)

Teacher: Katy Gordon

Grades: 6, 7, 8, 9

Class Schedule: Monday/Wednesday

Class Time: 11:00 am – 12:15 pm

Duration: 2.5 hours per week, 32 wks

Description: Middle School Math (Session 1) is a work-at-your-own pace math course designed for students taking Epsilon, Zeta, or Pre-Algebra using Math-U-See curricula. Student in all of these middle school levels will work in the same classroom getting individual assistance from Mrs. Gordon. It's basically one-on-one tutoring in a classroom setting.

In Middle School Math, you master fractions (when starting at the Epsilon level) or decimals (starting at the Zeta level) or negative numbers, order of operations, and solving for the unknown (when starting at the Pre-Algebra level). (See the placement tests below to help you pick the math level on which you should begin.) Together we use discovery learning and hands-on activities to understand the basic concepts for your level. This helps you obtain a deeper understanding, life-long learning, and a functioning knowledge of how to use math as the problem-solving tool for which it is designed.

We have what is called a flipped classroom, meaning you watch the lesson using the learning the Math-U-See DVD (or digital streaming videos in the digital pack) at home and attempt the first page of the workbook for that lesson. This prepares you for our classwork and helps you to ask questions on anything you don't understand. I help you figure out where and why you may be struggling, then individualize the teaching for you. I want you to know, "**Yes, You CAN do math!**"

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