

# Gray Matter Fall 2018 - Course Catalog

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## Math

### Algebra 1

**Teacher:** Habib Saidane

**Grades:** 7, 8, 9, 10

**Class Schedule:** Tuesday/Thursday

**Class Time:** 11:00 am – 12:15 pm

**Duration:** 2.5 hours per week, 32 wks

**Fee(s):**

**Full Tuition**

**Supply Fee**

\$756.00

\$0

**Description:**

In Algebra I, 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 it 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.

We have what is called a flipped classroom, meaning you watch the lesson using the learning website [www.sophia.org](http://www.sophia.org) 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? Am I ready for Algebra? Can I just skip Pre-Algebra?** We use the Math-U-See curriculum and manipulatives. Students are required to have the student workbook and test book (sold on the Math-U-See website as a student pack) prior to the first day. **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. **I strongly discourage skipping the Pre-Algebra course and moving directly from Zeta into Algebra.**

**Prerequisites:**

An understanding of Middle School Pre-Algebra Concepts

**Homework:**

Students can expect to spend about 1 hour per week on math outside of class. They will be asked to watch the chapter lesson at home before starting each new chapter. They will be expected to complete all lesson practices, honors lessons, systematic reviews, chapter tests, and occasional unit tests.

**Class Materials:**

Math-U-See Algebra 1 Student Pack.

You can find the student workbook and test book at <http://store.mathusee.com/>

**Payment Options:**

1. Full tuition of \$756.00 due at time of registration.
  2. Semester tuition of \$378 due at time of registration and second semester payment of \$378 due by January 15<sup>th</sup>
  3. Monthly payments of \$84. First month is due at time of registration. Subsequent monthly payments of \$84 on 9/1, 10/1, 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.
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## Algebra 2 and Beyond

**Teacher:** Habib Saidane

**Grades:** 9, 10, 11, 12

**Class Schedule:** Tuesday/Thursday

**Class Time:** 9:30 am – 10:45 am

**Duration:** 2.5 hours per week, 32 wks

**Fee(s):**

**Full Tuition**

**Supply Fee**

\$756.00

\$0

**Description:**

So you have completed Algebra I and Geometry and want to learn even more about upper-level math. You also want to prepare even further for your college entry exams. Algebra II is the next step where we explore topics such as 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.

We have what is called a flipped classroom, meaning you watch the lesson using the learning website [www.sophia.org](http://www.sophia.org) 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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**What do I buy? Am I ready for Algebra II? Pre-Calculus? AP Calculus?** We use the Math-U-See curriculum and manipulatives. Students are required to have the student workbook and test book (sold on the Math-U-See website as a student pack) prior to the first day. **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.

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### **AP Calculus**

Students who are ready for Calculus have successfully completed Algebra I, Algebra II, Geometry, and Pre-Calculus (or an advanced math/ trigonometry equivalent)

**Note:** We will not be using the Math-U-See curriculum to prepare for the AP Calculus exam. We are not an official AP Calculus class, but only because it is not a requirement to register through the SAT Board to qualify to take the exam. You just need to make sure you are ready. I am following the SAT Board guidelines to ensure you have been taught all you need to know to do well on the AP Calculus exam. The rest is up to you.

**Prerequisites:**

Completion of Algebra 1 level work

**Homework:**

Students can expect to spend about 1 hour per week on math outside of class. They will be asked to watch the chapter lesson at home before starting each new chapter. They will be expected to complete all lesson practices, honors lessons, systematic reviews, chapter tests, and occasional unit tests.

**Class Materials:**

Math-U-See Algebra 2 Student Pack.  
OR Math-U-See Pre-Calculus Student Pack.  
OR Math-U-See Calculus Student Pack.

You can find the student workbook and test book at <http://store.mathusee.com/>

**Payment Options:**

1. Full tuition of \$756.00 due at time of registration.
  2. Semester tuition of \$378 due at time of registration and second semester payment of \$378 due by January 15<sup>th</sup>
  3. Monthly payments of \$84. First month is due at time of registration. Subsequent monthly payments of \$84 on 9/1, 10/1, 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.
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## Geometry

**Teacher:** Habib Saidane

**Grades:** 9, 10, 11, 12

**Class Schedule:** Tuesday/Thursday

**Class Time:** 1:00 – 2:15 pm

**Duration:** 2.5 hours per week, 32 wks

<b>Fee(s):</b>	<b>Full Tuition</b>	<b>Supply Fee</b>
	\$756.00	\$0

**Description:** So you've completed Algebra I and want to learn even more about upper-level math. You also want to prepare for your college entry tests. Geometry is the next step. Together 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, 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 website [www.sophia.org](http://www.sophia.org) 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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**What do I buy? Am I ready for Geometry?** We use the Math-U-See curriculum and manipulatives. Students are required to have the student workbook and test book (sold on the Math-U-See website as a student pack) prior to the first day. **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.

Go to [www.mathusee.com/](http://www.mathusee.com/) to find free placement tests.

**Prerequisites:** Completion of Algebra 1 level work

**Homework:** Students can expect to spend about 1 hour per week on math outside of class. They will be asked to watch the chapter lesson at home before starting each new chapter. They will be expected to complete all lesson practices, honors lessons, systematic reviews, chapter tests, and occasional unit tests.

**Class Materials:** Math-U-See Geometry Student Pack.  
You can find the student workbook and test book at <http://store.mathusee.com/>

### **Payment Options:**

1. Full tuition of \$756.00 due at time of registration.
  2. Semester tuition of \$378 due at time of registration and second semester payment of \$378 due by January 15<sup>th</sup>
  3. Monthly payments of \$84. First month is due at time of registration. Subsequent monthly payments of \$84 on 9/1, 10/1, 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.
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## Middle School Math (Section 1)

**Teacher:** Habib Saidane

**Grades:** 6, 7, 8, 9

**Class Schedule:** Monday/Wednesday

**Class Time:** 9:30 – 10:45 am

**Duration:** 2.5 hours per week, 32 wks

**Fee(s):**

**Full Tuition**

**Supply Fee**

\$720.00

\$0

**Description:**

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 website [www.sophia.org](http://www.sophia.org) 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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**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 student workbook and test book (sold on the Math-U-See website as a student pack) prior to the first day. **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/](http://www.mathusee.com/) to find free placement tests.

**Prerequisites:**

None

**Homework:**

Students can expect to spend about 1 hour per week on math outside of class. They will be asked to watch the chapter lesson at home before starting each new chapter. They will be expected to complete all lesson practices, honors lessons, systematic reviews, chapter tests, and occasional unit tests.

**Class Materials:**

Math-U-See Epsilon Student Pack.  
OR Math-U-See Zeta Student Pack.  
OR Math-U-See Pre-Algebra Student Pack.

You can find the student workbook and test book at <http://store.mathusee.com/>

**Payment Options:**

1. Full tuition of \$720.00 due at time of registration.
  2. Semester tuition of \$360 due at time of registration and second semester payment of \$360 due by January 15<sup>th</sup>
  3. Monthly payments of \$80. First month is due at time of registration. Subsequent monthly payments of \$80 on 9/1, 10/1, 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.
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## Middle School Math (Section 2)

**Teacher:** Habib Saidane

**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

<b>Fee(s):</b>	<b>Full Tuition</b>	<b>Supply Fee</b>
	\$720.00	\$0

**Description:** 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 website [www.sophia.org](http://www.sophia.org) 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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**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 student workbook and test book (sold on the Math-U-See website as a student pack) prior to the first day. **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/](http://www.mathusee.com/) to find free placement tests.

**Prerequisites:** None

**Homework:** Students can expect to spend about 1 hour per week on math outside of class. They will be asked to watch the chapter lesson at home before starting each new chapter. They will be expected to complete all lesson practices, honors lessons, systematic reviews, chapter tests, and occasional unit tests.

**Class Materials:** Math-U-See Epsilon Student Pack.  
OR Math-U-See Zeta Student Pack.  
OR Math-U-See Pre-Algebra Student Pack.

You can find the student workbook and test book at <http://store.mathusee.com/>

### **Payment Options:**

1. Full tuition of \$720.00 due at time of registration.
  2. Semester tuition of \$360 due at time of registration and second semester payment of \$360 due by January 15<sup>th</sup>
  3. Monthly payments of \$80. First month is due at time of registration. Subsequent monthly payments of \$80 on 9/1, 10/1, 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.
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## Middle School Math (Section 3)

**Teacher:** Habib Saidane

**Grades:** 6, 7, 8, 9

**Class Schedule:** Monday/Wednesday

**Class Time:** 1:00 – 2:15 pm

**Duration:** 2.5 hours per week, 32 wks

**Fee(s):**

**Full Tuition**

**Supply Fee**

\$720.00

\$0

**Description:**

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.

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**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 student workbook and test book (sold on the Math-U-See website as a student pack) prior to the first day. **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/](http://www.mathusee.com/) to find free placement tests.

**Prerequisites:**

None

**Homework:**

Students can expect to spend about 1 hour per week on math outside of class. They will be asked to watch the chapter lesson at home before starting each new chapter. They will be expected to complete all lesson practices, honors lessons, systematic reviews, chapter tests, and occasional unit tests.

**Class Materials:**

Math-U-See Epsilon Student Pack.  
OR Math-U-See Zeta Student Pack.  
OR Math-U-See Pre-Algebra Student Pack.

You can find the student workbook and test book at <http://store.mathusee.com/>

**Payment Options:**

1. Full tuition of \$720.00 due at time of registration.
2. Semester tuition of \$360 due at time of registration and second semester payment of \$360 due by January 15<sup>th</sup>
3. Monthly payments of \$80. First month is due at time of registration. Subsequent monthly payments of \$80 on 9/1, 10/1, 11/1, 12/1, 1/1, 2/1, 3/1, 4/1. No tuition is due in May.