

ASTEME MATH & STEM CENTER

Advancement of Science, Technology, & Engineering in Math Education



MATH FOR THE MIND, BODY & SPIRIT™

5-Week Tuesday, Wednesday & Thursday Sessions

April 30th – May 31st

3-Week Monday Session

May 6th – May 20th

Weeklong Spring STEM Camp Week

April 15th - April 19th:

Science & Technology Week

Join us as we continue our amazing fun filled journey exploring math ideas in the Science, Technology & Engineering fields with **BRAND NEW ACTIVITIES**. In our upcoming special May session, we will be looking at how math is used in Chemistry, Biology, Psychology, & Geology! The students will perform Harry Potter chemistry experiments, 3D design and print, explore the psychology of dogs, program robots, and much, much more!

ASTEME supports access and equity for women in the STEM fields. We are proud to offer an **ASTEME all girls session** on Wednesdays from 4:00PM-6:00PM.

ASTEME is also offering two **computer coding classes** on Wednesdays from 4:00PM-6:00PM. The beginning class will cover the fundamentals of designing, writing and debugging computer code using Scratch. The advanced class will focus on creating iOS apps using Xcode and SWIFT.

Weekly ASTEME Sessions

Monday, Tuesday & Thursday 4:00PM – 6:00PM

Weekly ASTEME for girls

Wednesday 4:00PM – 6:00PM

Weekly Computer Coding

Wednesday Beginner 4:00PM – 6:00PM

Wednesday Advanced Augmented Reality (iOS Apps) 4:00PM – 6:00PM

Cost: \$310 for 5-week sessions and \$186 for 3-week Monday session

Please visit www.asteme.com and click on Register Now for the link.

Location: ASTEME Learning Center, 11672 Gateway Blvd., West L.A., CA 90064

RSVP now by visiting

www.asteme.com

ASTEME Homeschool School Programs (April 30th-May 31st)

ASTEME's innovative and dynamic home school program is designed by Allan Yu with the purpose of bringing a unique projects-based learning environment to the community. Allan has an extensive background in curriculum development and has helped some of the best progressive schools in West Los Angeles develop their math curriculum. His experience as a director with the UCLA Math Project, and background in special education, engineering and psychology has allowed him to create an innovative, multi-curricula, and individualized home school program.

In addition to the incredible STEM, coding and science classes we had last year, ASTEME is excited to offer all day options for students who wish to spend more time here learning and socializing. Families have the option of not coming all day by selecting any combination of grade appropriate classes throughout the week.

The cost of each class is \$30/hour. Discounts offered for the twice/thrice a week STEM classes only.

All-day Options: 4 classes per day

- Twice a week:
 - Tuesday (8:30AM-3:00PM) & Thursday (8:30AM-3:30PM)
 - Monday (8:30AM-3:00PM) & Thursday (8:30AM-3:30PM)
- Once a week:
 - Monday (8:30AM-3:00PM)
 - Tuesday (8:30AM-3:00PM)
 - Thursday (8:30AM-3:30PM)

Our STEM + Math Classes:

- **If you sign up for our Monday/Tuesday/Thursday, Monday/Tuesday, Tuesday / Thursday, or Monday/Thursday STEM classes, you receive a 15% combo discount for the STEM classes.**
- We HIGHLY recommend taking the twice a week 10:30AM STEM classes (our most popular classes) with the appropriate 12:30PM math classes that follow.
- The following 2-day STEM + Math options are available
 - Tuesday & Thursday (1030AM-130PM)
 - Monday (3 weeks) & Thursday (1030AM-130PM)
 - Monday (3 weeks) & Tuesday (1030AM-130PM)
 - 2-day STEM + Math options may be taken with the 3rd math class option.
- You may also take the STEM + Math combination once a week

Math focused Classes:

- Our math classes are individualized to meet the needs of every student
- You may take any combination of the following three math class timeframes. To have the most enriching math experience, we recommend coming all three days.
 - Monday: 12:30-1:30PM, Tuesday: 12:30-1:30PM, Thursday: 12:30-1:30PM

Science Classes:

- **Chemistry: Portrait of the Elements (K-4th, 5th-10th):**
Every week we'll explore a new element and dive into what makes it distinct from every other element. We'll investigate really understanding the periodic table, electron shells and how each element reacts to other elements. Every class will be hands-on and involve chemical experiments.

- **Science & Art (5th-10th):**
In this class, we'll look at the science behind different artistic techniques. We'll learn about polymers in clay and resin, the chemistry of pigments and dyeing processes, and the math of different printmaking techniques. The projects will be open ended to encourage students to explore their creative side while learning the science behind the art we make.
- **Photography (K-4th) (Monday 3-week session)**
In this mini-session, we'll focus on a different photographic process each day and students will have hands on experience with different kinds of cameras, including instant and high speed. We'll look at the science behind optics and light and the chemistry behind developing photographs, while creating take home work every week.

Technology & Engineering Classes:

- **History of Innovation (K-4th, 5th-10th):**
This class will explore innovation in the fields of science, technology, engineering, and mathematic throughout history. From the pyramids of Egypt, to Da Vinci's inventions, to the Industrial Revolution, students will build connections to the past through hands on STEM challenges.
- **Makerspace engineering (K-4th)**
Each week, students will explore a different engineering challenge, while developing creative problem solving and teamwork skills. Experiment with wind, water, LEGO, VR, and more while learning the principles of the engineering design process.
- **Electronic Music Workshop (5th-10th) (Monday 3-week session):**
Learn the basics of musical composition from beats to melodies as we explore digital music software. During this 3-week session, students will use digital apps and software to record their own composition. No previous music experience necessary!
- **More Virtual Reality Adventures (5th-10th) (Monday 3-week session):**
Join us for part 2 of our incredible adventure into the scientific world of Virtual Reality. We will learn and explore the microscopic world of bacteria, the inner workings of the brain, the edge of solar system, and much more!
- **More LEGO Adventures (K-4th) (Monday 3-week session):**
Join us as we continue our LEGO adventures as we continue learning about famous architects and engineers while exploring the science and engineering behind some of the most famous structures in and out of this world.

Computer Coding Classes:

- **Robotics 103:**
For students who are beginning coders who would like to learn how to program LEGO Mindstorms robots to complete incredible missions on "Mars." This is an introduction class that will lead to more advanced Robotic coding next session.
- **Intermediate/Advanced Coding focused on iOS app development:**
For students who would like to learn how to program iOS apps using object-oriented coding and app development using Apple iOS Swift. Students will create fun apps that they can download and use immediately on their iOS phones and iPads.

Movement Classes:

- **Improv 103:**
Come learn how to act and play using improvisation. We will play games, build characters, and learn how to be in the moment. Improv is a skill that can be applied in everyday life; the class will teach leadership skills and help develop confidence

ASTEME April 30th- May 31st SCHEDULE

Monday:

8:30AM-9AM: Free-time

9AM-10:00PM: 2 Electives

- More Virtual Reality Adventures (5th-10th)
- More LEGO Adventures (K-4th)

1030AM-1200PM STEM

- K-10th

12:30PM-1:30PM Math

- Elementary Math (K-2)
- Elementary Math (3-5)
- Pre-Algebra/Algebra
- Algebra/Algebra 2

2:00PM-3:00PM 2 Electives

- Photography (K-4)
- Electronic Music Workshop (5-10)

Tuesday:

8:30AM-9AM: Free-time

9AM-10:00PM: 2 Electives

- Chemistry and Elements (K-4)
- History of STEM innovation (5-10)

10:30AM-12:00PM STEM

- K – 10th

12:30PM-1:30PM Math

- Elementary Math (K-2)
- Elementary Math (3-5)
- Pre-algebra/Algebra
- Algebra/Algebra 2

2:00PM-3:00PM 2 Electives

- Chemistry and elements (5-10)
- Makerspace Engineering (K-4th)

Thursday:

8:30AM-9AM: Free-time

9AM-10:00PM: 2 Electives

- Science and Art (5th-10th)
- History of STEM innovation (K-4th)

10:30AM-12:00PM STEM

- K – 10th

12:30PM-1:30PM Math

- Elementary Math (K-2)
- Elementary Math (3-5)
- Pre-algebra/Algebra
- Algebra/Algebra 2

2:00PM – 3:00PM

- Improv 103 (all ages)

2:00PM-3:30PM Coding

- Robotics 103
- Intermediate/Advanced iOS Coding