

ASTEME 2019 Spring Home School Programs

February 11th – April 6th

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, cross-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 a week STEM classes only.

All-day Options: 4 classes per day

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

STEM Classes:

- **If you sign up for our Tuesday/Thursday, Monday/Thursday, or Monday/Tuesday/Thursday STEM classes you receive a 15% combo discount on the STEM classes only (\$110 savings for 2 times/week, \$165 for 3 times/week.**
- We HIGHLY recommend taking at least 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 & Thursday (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:

- **Psychology (5th-10th):**
In this exploratory class we'll dive into the science of what affects the decisions that we make, the ideas that we have, and the way we act. We'll also explore what makes up different kinds of intelligence, the conscious and unconscious mind, and a few classic psychology experiments. Join us to learn about other people, but even more about yourself.
- **Astronomy (K-4th, 5th-10th):**
Come explore the wonders of OUR universe with this incredible hands-on class that will build on some of the ideas learned during our 1st Astronomy class. This class is perfect for the amateur to the experienced astronomer. We'll learn about earth, our neighbors, and expand to infinity and beyond!
- **Science of our Senses (K-4th):**
Spoiler Alert: There are definitely more than 5 senses! In this class we'll explore how our bodies interact with the outside world. Class will include unique and dynamic hands on interactive experiments including illusions (both visual and auditory), balance and kinesthetics, synesthesia, and the connections between smell and taste.
- **Plant and Food Sciences (K-4th & 5th-10th)**
The students will explore the engineering and biology used to study the nature of plants and food. We will exercise our green thumbs by planting and caring for a variety of plants, exploring food cycles and sustainability, and learning how to use homegrown plants in the kitchen and beyond. Lessons will include: hydroponics, vegetable tie dying, indoor terrariums, chemistry while making jam, mushroom growing, healthy eating, and more!

Technology & Engineering Classes:

- **Advanced Tech Expressions (5-10th):**
This is a Maker class with projects that lie at the intersection between technology and creative expression, with a focus on developing hands on artistic skills as well as tech fundamentals. This class will build upon skills learned in previous maker classes at ASTEME, such as soldering, circuitry, and sewing, while offering new advanced level projects for returning and first-time students.
- **Jr. Electrical Engineer (K-4th):**
The perfect class for introducing kids to the wonderful world of electrical engineering. This hands-on activity, project-based class will focus on having fun while learning the foundations of electrical circuitry, conductivity, voltage, current, power, safety, and much more!
- **Virtual Reality Exploration (5th-10th):**
Join us for an incredible adventure into the scientific world of Virtual Reality. We will learn and explore the depths of our oceans, the inner workings of the human body, projectile physics, International Space Station, flying, bungee jumping, and much more!
- **Even More LEGO Adventures (K-4th):**
Join us for even more LEGO and LEGO Friends adventures as we continue our journey building LEGO while exploring and learning about the science, technology, and architecture behind Harry Potter, Pixar, Star Wars, & Marvel Superheroes.

Computer Coding Classes:

- **Robotics 102:**
Our robotic coding adventures continue as we learn more fun ways to program our LEGO Mindstorm robots. This class is perfect for beginners and for students who are currently enrolled in Robotics 101, and for students who are beginning coders. This is an introduction class that will lead to more advanced Robotic coding next session.
- **Intermediate/Advanced Coding focused on Augmented Reality app development.**
This will be a continuation of our iOS app development series which will focus on both Augmented Reality and regular programming. Students will learn object-oriented and app development using Apple iOS Swift and create fun apps that they can download and use immediately on their iOS phones and iPads.

Movement/Expression Classes:

- **Improv 102:**
Come learn how to act and play using improvisation. We will learn new games, build new 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 SPRING SCHEDULE

Monday:

8:30AM-9AM: Free-time
9AM-10:00PM: 2 Electives

- **Virtual Reality Exploration (5-10th)**
- **Even 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

- **Sensory Science (K-4)**
- **Science of Plants and Food (5-10th)**

Tuesday:

8:30AM-9AM: Free-time
9AM-10:00PM: 2 Electives

- **Astronomy (K-4th)**
- **Advanced Tech Expressions (5-10th)**

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

- **Astronomy (5-10th)**
- **Electrical Engineering for kids (K-4th)**

Thursday:

8:30AM-9AM: Free-time
9AM-10:00PM: 2 Electives

- **Psychology (5-10th)**
- **Science of Plants & Food (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-3:30PM Coding

- **Robotics 102 (K-5th)**
- **Intermediate/Advanced iOS Coding (4-10th)**

2:00PM-3:00PM **Improv 102**