

ASTEME Homeschool School Programs

(September 9th – December 21st)

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.

We are excited to offer four all-day 9AM-3PM options on Mondays, Tuesdays, Thursdays, and Fridays with a Language Arts component. Families also have the option of selecting any combination a la carte of grade appropriate classes throughout the week.

All-day discount Options: 4 classes per day

Monday, Tuesday, Thursday, and Friday 9AM-3PM

- We are happy to offer our K-10th grade community convenient all-day 9AM-3PM sign-up options on Mondays, Tuesdays, Thursdays and Fridays. Each day will have 4 different classes including our 90-minute STEM class, and 30-minute socializing breaks in between classes. Different types of classes will be offered and differentiated throughout the week so your child(ren) can attend all 4 days and learn something new every day!
 - **COST:**
 - If you sign up for any of our 9AM-3PM all-day options, you will receive a 15% discount on the 1030-1200PM STEM class, and 5% discount on the other three classes (\$172.50 savings)
 - Monday 9AM-3PM (13 days) full day price with discount (\$1761)
 - Tuesday, Thursday, or Friday 9AM-3PM (14 days) \$1897.50 (Save \$172.50)

STEM multi-day discount options:

Monday, Tuesday, Thursday and Friday 1030AM-1200PM

- ASTEME's most popular K-10th grade class combines science, technology, engineering and math into one dynamic and exciting experience, and will **feature NEW ACTIVITIES and TOPICS**. We HIGHLY recommend taking our STEM class at least twice a week 10:30AM -1200PM. If you take more than one STEM class, you will receive a 15% discount on the STEM classes
- Our new Friday STEM Passion Project class will focus on introducing exciting STEM ideas (photography, science, inventions, 3D printing, book making, and much, much more), and helping students find and develop their individual interests with their teachers.
 - **COST:**
 - If you sign up for at least two STEM classes, you will receive a 15% discount on the STEM classes.
 - Monday STEM class (13 sessions) with discount \$544.50
 - Tuesday, Thursday or Friday STEM class (14 sessions) with discount \$586.50

Math focused Classes:

K-2nd: Monday 9-10, Tuesday 2-3, Thursday 2-3, Friday 9-10

3rd-5th: Monday 2-3, Tuesday 9-10, Thursday 9-10, Friday 2-3

6th-7th: Monday, Tuesday, Thursday and Friday 1230-130

8th-9th: Monday, Tuesday, Thursday and Friday 1230-130

- Our math classes are individualized to meet the needs of every student. The classes are designed by Allan Yu, the director of ASTEME and former director of the UCLA Math Project.
- Math classes are separated into 4 groups (K-2, 3rd-5th, 6th-7th, and 8-9th Algebra and Geometry)
- You may take any combination of the four age appropriate math classes throughout the week. To have the most enriching math experience, we recommend coming all four days. At a minimum, we recommend taking at least two math classes per week.
 - COST:
 - Monday math classes (13 sessions) \$427.50
 - Tuesday, Thursday or Friday math classes (14 sessions) \$460

Language Arts Classes:

Grades K-2: Literacy and STEM

Monday 2:00PM-3:00PM, Tuesday 12:30-1:30PM

- This class will be differentiated for students' various reading/writing abilities, and will be accessible for students who are not independent reader or writers yet.
- Students will explore a new weekly STEM concept using a picture book or short story. They will be led in hands-on activities, peer discussions, and writing to further explore concepts covered.
- As a culminating project, students will participate in writing a picture book that incorporates a topic in STEM. This project will enable students to collaborate with their peers in writing a story, illustrating the text, and producing a book to take home on the last day. While all stories will have a STEM focus, the four components of Language Arts (reading, writing, listening, and speaking) will be practiced each day.
 - COST:
 - Monday 2:00PM-3:00PM classes (13 sessions) \$427
 - Tuesday 12:30PM-1:30PM classes (14 sessions) \$460

Grades 3-5: Language Arts Multi-Genre Research Project: Important Person in STEM

Monday & Fridays: 12:30-1:30PM (Twice a week recommended)

- This class is designed to be a fun and creative way for students to develop important language arts skills which will include researching and findings answers to questions, writing organized essays/papers based on research, and presenting ideas to others.
- The multi-genre research project will give the students a choice in how they express their creativity presenting the information they learn. The students will choose an influential person in STEM that interests them, and will learn how to conduct research using books, articles, and the Internet. From this research, they will be given several options of writing genres to use in showcasing their person.
- This class will include teacher modeling, peer activities, and group discussions to help support students in their learning. The class will culminate with students presenting their research projects to the class.
- It is best for students to attend both days each week, since lessons are designed to build off each other. If a student can only attend once a week, he/she needs to complete missed lesson at home to not fall behind.
 - Home assignments will be given for this class:

- To be successful in completing this project and getting the most out of the class, students are required to complete research and writing at home
- COST:
 - Monday & Friday twice a week \$987
 - Monday 12:30PM-1:30PM (13 sessions) \$427
 - Friday 12:30PM-1:30PM classes (14 sessions) \$460

Grades 6-Up: Language Arts Multi-Genre Research Project: STEM Topic

Monday & Fridays: 9:00-10:00AM (Twice a week HIGHLY recommended)

- This class is designed to be a fun and creative way for students to develop language arts skills to prepare them for high school level essay writing. Different genres will be taught based on students' interests. Students will learn techniques for researching and finding answers to essential questions, write organized multi-paragraph and multi-page essays based on research, and present ideas to others.
- The multi-genre research project will give the students a choice in how they express their creativity presenting the information they learn. Students will be encouraged to think outside the box, challenged to look at information from different perspectives, and experiment with different writing styles.
- The class will culminate with students presenting their research projects to the class.
- It is best for students to attend both days each week, since lessons are designed to build off each other. If a student can only attend once a week, he/she needs to complete missed lesson at home to not fall behind.
 - Home assignments will be given for this class:
 - To be successful in completing this project and getting the most out of the class, students are required to complete research and writing at home
 - COST:
 - Monday & Friday twice a week \$987
 - Monday 12:30PM-1:30PM (13 sessions) \$427
 - Friday 12:30PM-1:30PM classes (14 sessions) \$460

Science, Engineering & Technology Based Classes:

- COST:
 - Monday classes (13 sessions) \$427
 - Tuesday - Friday classes (14 sessions) \$460

Our teachers have put together **BRAND NEW ACTIVITIES AND TOPICS** to accompany each class. If your child has taken a class with a similar title last year, **they will learn new concepts and go even deeper into each subject!**

Foundations of Science:

Thursday 9:00-10:00AM (Earth K-2nd), Friday 2:00-3:00PM (Chemistry K-2nd)

- Join us for an incredible journey into the world of early childhood science. We will dive deep into the K-2nd grade science curriculum learning about collisions, properties of force, physical attributes of animals and plants, weather and climate, Earth and natural resources, conservation of energy, natural disasters, Solar System, light & sound, biodiversity, history of Earth, different kinds of Matter, and much more! A multi-modality style of teaching will be used which will include many hands-on projects that will honor the different learning styles our children have.

Foundations of Engineering:

Tuesday 900-1000AM (Chemical K-2nd)

Thursday 1230-130PM (Electrical K-2nd)

Friday 1230-130PM (Architectural K-2nd)

- Join us for an incredible journey into the world of early childhood engineering and building. There are three sessions available that will focus on Electrical, Chemical, and Architectural engineering. We will dive deep into the K-2nd grade engineering curriculum while learning about Architecture, simple machines, pulleys, water resources and dams, potato power, electromagnetic, circuitry, water filters, insulation, electricity, 3D design and printing, and much, much more! A multi-modality style of teaching will be used which will include many hands-on projects that will honor the different learning styles our children have.

LEGO Engineering and Architecture Adventures:

Monday 1230-130PM (K-2nd)

- Everything is awesome! Everything is cool when you're part of ASTEME. Join us as we explore the engineering and architecture behind LEGO. Every week the students will learn something new about engineering and architectural structures. They will build new LEGO kits while developing collaboration and problem-solving skills.

Intro/Intermediate Coding:

Thursday 200-300PM (3rd – 5th)

- This class will focus on helping students develop a strong foundation for programming which will focus on the 3 components of coding (planning, coding, debugging). The students will start off with a graphics-based coding program using Scratch and transition to a text based language called BASIC when they are ready for more advanced options.
- **COST:**
 - Thursday classes (14 sessions) \$460

Intermediate/Advanced Coding:

Thursday 200-300PM (5th – 10th)

- This class is designed for students who have experience coding text-based languages. We will focus on helping students develop the foundation for creating apps on the iOS Apple platform (iPhone & iPad). This is a wonderful class designed to help students learn how to create, publish and sell apps on the app store.
- **COST:**
 - Thursday classes (14 sessions) \$460

Technology:

Thursday 1230-130PM (3rd – 5th)

- This will be an exciting class that will bring students to the past, present and future applications of technology. The students will learn about recording devices, visual media, 3D printing, Virtual Reality, building computers, artificial intelligence, and much, much more. In addition to this, responsible use of technology and safety will be covered.
- **COST:**
 - Thursday classes (14 sessions) \$460

Chemistry:

Tuesday 9:00-10:00AM (6th-10th), Tuesday 2:00-3:00PM (3rd-5th)

- Join us for our first ever semester long chemistry class. This class will cover the basics of chemistry including the periodic table, atomic and molecular structure, and states of matter, as well as dive into the causes and types of chemical and physical reactions. Each class will involve hands on experiments for each topic.

Eco-Geology/Nature Science:

Monday 9:00-10:00AM (3rd – 5th), Tuesday 2:00-3:00PM (6th-10th)

- Dive into the science of nature in this hands-on natural science class. We will cover Environmental Science topics, such as ecosystems, plant biology, and renewable resources, as well as Geology, including rocks and minerals, the history of the earth and dinosaurs/fossils.

Food and Plant Science:

Tuesday 12:30-1:30PM (3rd-5th), Thursday 9:00-10:00AM (6th-10th)

- In this class, students will exercise their 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. All NEW lessons include jam making, potato growing, vegetable tie dye, butter churning, basic cooking skills, and more! (Note: not all lessons may be Vegan/Vegetarian friendly. Substitutions will be made wherever possible)

Science Fair:

Thursday 2:00-3:00PM (6th-10th)

- Create and produce your own science project in this long form class. This class will focus on the procedure of the scientific method as pertaining to a project of your choosing (some self-directed work will be expected). We will cover proper methodology and presentation of scientific ideas and the class will culminate in creating and presenting a science fair project.

Escape Room Engineering Design:

Friday 2:00-3:00PM (6th-10th)

- Discover the art of immersive design and extreme puzzle solving! Over the duration of the session, students will collaborate to build their own escape room, while learning about game theory, level design, codebreaking, and beyond. Students will have the opportunity to create props, write dialogue, or perform in their own escape room! This class welcomes returning and first-time students.

STEM History:

Tuesday 2:00-3:00PM (6th-10th), Friday 9:00-10:00AM (3rd-5th)

- This class will explore innovation in the fields of science, technology, engineering, and mathematics throughout world history. From the pyramids of the Mayan Empire, to Da Vinci's inventions, to the Industrial Revolution, students will build connections to the past through hands on STEM challenges and creative projects.

Movement Classes:

Thursday 2:00-3:00PM (K-12th)

- **Improv:**
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
- **COST:**
 - Thursday classes (14 sessions) \$460

ASTEME Fall Semester 2019-2020

(September 9th – December 21st)

	Monday			Tuesday			Thursday			Friday		
830-900												
900-1000	K-2 Math	3-5 Geology	6-10 Language Arts	K-2 Foundations of Engineering (Chemical)	3-5 Math	6-10 Chemistry	K-2 Foundations of Science (Earth)	3-5 Math	6-10 Plant Science	K-2 Math	3-5 History of STEM	6-10 Language Arts
1000-1030												
1030-1200	K-2 STEM	3-5 STEM	6-10 STEM	K-2 STEM	3-5 STEM	6-10 STEM	K-2 STEM	3-5 STEM	6-10 STEM	K-2 STEM Passion Project	3-5 STEM Passion Project	6-10 STEM Passion Project
1200-1230												
1230-130	K-2 LEGO	3-5 Language Arts	6-7 Math	K-2 Language Arts	3-5 Plant Science	6-7 Math	K-2 Foundations of Engineering (Electrical)	3-5 Technology	6-7 Math	K-2 Foundations of Engineering (Architectural)	3-5 Language Arts	6-7 Math
			8-9 Math			8-9 Math			8-9 Math			
130-200												
200-300	K-2 Language Arts	3-5 Math	6-10 Geology	K-2 Math	3-5 Chemistry	6-10 History of STEM	K-2 Math	3-5 Intro Coding	6-10 Science Fair	K-2 Foundations of Science (Chemistry)	3-5 Math	6-10 Engineering of Escape Rooms
								6-10 Advanced Coding				
200-300							K-2 Improv	3-5 Improv	6-10 Improv			

