

ASTEME Homeschool School Programs: Semester 2

(January 13th – May 29th)

ASTEME's innovative and dynamic home school program is designed by Allan Yu with the purpose of bringing a unique project-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. and a Language Arts component 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.

All-day discount Options: 4 classes per day

- We are happy to offer our community four all-day 9AM-3PM options on Mondays, Tuesdays, Thursdays and Fridays.
- Description
- **If you sign up for any of our 9AM-3PM all-day options, you will receive a 15% discount on the 1030-1200 STEM class, and 5% discount on the other three classes. Add an additional \$85 to price listed for Friday STEM classes to cover cost of field-trips.**
 - Monday full day price with discount \$2167.75 (16 weeks)
 - Tuesday, Thursday or Friday full day price with discount \$2580.25 (19 weeks)
 - Two full day price (Tuesday, Thursday or Friday) with discount \$5160.50
 - Two full day price (Monday & Tuesday, Thursday or Friday) with discount \$4748
 - Three full day price (Tuesday, Thursday and Friday) with discount \$7740.75
 - Three full day price (Monday & Tuesday, Thursday or Friday) with discount \$7328.25
 - Four full day (Monday, Tuesday, Thursday and Friday) with discount \$9908.50

STEM multi-day discount options 1030-1200PM

- We HIGHLY recommend taking our STEM class (our most popular classes) 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 Friday Community Exploration STEM class will involve taking field-trips to explore the community. **Add an additional \$85 to listed price for Friday STEM classes to cover cost of field-trips.**
 - Monday STEM class with discount \$671.50 (16 weeks)
 - Tuesday, Thursday or Friday STEM class with discount \$799
 - Two STEM classes (Tuesday, Thursday or Friday) with discount \$1598
 - Two STEM classes (Monday & Tuesday, Thursday or Friday) with discount \$1470.50
 - Three STEM classes (Tuesday, Thursday and Friday) with discount \$2397
 - Three STEM classes (Monday & Tuesday, Thursday or Friday) with discount \$2269.50
 - Four STEM classes (Monday, Tuesday, Thursday and Friday) with discount \$3068.55

STEM Classes:

ASTEME STEM: Grades K-10th

Monday, Tuesday, Thursday 10:30-12:00PM

ASTEME STEM is our most popular class. A variety of stimulating topics are covered throughout the semester. Our STEM curriculum is fluid and changes as new discoveries happen in the world of science technology, engineering and math. Students learn how math is used in these fields while participating in a selection of over 700 STEM activities. All activities are differentiated for the appropriate grade levels.

ASTEME STEM Community Explorations: Grades K-10th

Friday: 10:30-12:00PM

ASTEME STEM Community Explorations is an incredible class that combines everything that students love about our STEM class with opportunities to explore our community. Students will learn about photography while taking pictures in the community, explore museums while learning about famous artists, visit the bowling alley while learning about linear equations and angles, and much, much, more! Transportation will be provided when necessary by our 15-passenger vans. This class will be priced \$100 more to cover the cost of all field-trips.

Math Classes:

The curricula for our math classes are created by Allan Yu and individualized to meet the needs of every student. Math is offered for all the grade levels on Mondays, Tuesdays, Thursdays and Fridays. To have the most enriching math experience, we recommend coming all 4 days.

Monday-Friday: Grades K-2nd

Monday 9:00-10:00AM, Tuesday 2:00-3:00PM, Thursday 2:00-3:00PM, Friday 9:00-10:00AM

Math is Everywhere: The focus will be on exploring our world and developing problem solving skills while solidifying addition and subtraction strategies. Students who are ready will work on developing multiplication and division strategies.

Monday-Friday: Grades 3rd – 5th

Monday 2:00-3:00PM, Tuesday 9:00-10:00AM, Thursday 9:00-10:00AM, Friday 2:00-3:00PM

Project Based Learning: The focus will be on long-term student driven projects while solidifying the four basic operations using different strategies. Students who are ready will work on developing the foundation for fractions and decimals.

Monday-Friday: Grades 6th – 7th

Monday 12:30-1:30PM, Tuesday 12:30-1:30PM, Thursday 12:30-1:30PM, Friday 12:30-1:30PM

Algebra Readiness: The focus will be on solidifying fractions, decimals and percentages while developing the foundation for Algebra (integers, multi-step equations and slope-intercept)

Monday-Friday: Grades 8th – 10th

Monday 12:30-1:30PM, Tuesday 12:30-1:30PM, Thursday 12:30-1:30PM, Friday 12:30-1:30PM

Algebra 1 and Geometry: The focus will be on solidifying 8th grade Algebra graphing concepts (linear and quadratic equations) while developing 9th grade Geometric proofs and Trigonometry.

Brain Games: Grades K-2nd

Tuesday 9:00-10:00AM

This class is designed to help students develop their logic, reasoning, and problem-solving skills through fun, and dynamic games and puzzles. Students will practice working as a group, learning collaboration and cooperation skills in a meaningful and fun way. All levels of math abilities are welcome!

Language Arts Classes:

Language Arts: All About Ecosystems

Mondays: Grades K-2nd

2:00 -3:00PM

Tuesdays: Grades K-2nd

12:30 -1:30PM

Students will dive into reading and writing while exploring different ecosystems (desert, ocean, rain forest, and arctic). Multiple literary genres will be used to learn about these diverse areas in the world and the plants and animals that live in each. Students will participate each day in activities that are designed to practice and reinforce the language arts skills taught in the lesson.

This class will be differentiated for students' various reading/writing abilities and will be accessible for students who are not independent readers or writers yet.

Language Arts: Reading, Writing and Research for Scientific Inquiry

Mondays: Grades 3rd – 5th

12:30 -1:30PM

Mondays: Grades 6th - 10th

9:00 -10:00AM

Students will learn the language arts skills used in scientific inquiry. It is designed to be taken with the science fair class. If a student plans to take this class without the science fair class, please contact Allan to confirm.

In the first half of the semester, students will participate in small group and partner work to read, write, and discuss different aspects of the scientific method. Lessons include reading and interpreting scientific texts, following multi-step procedures, researching topics, and representing and interpreting data. The second half of the semester will be used to help students research and write about their own science fair projects. The culminating project for this class and the science fair class is to present their projects to their peers.

***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 (assignments will be given each day and must be brought to class on due date).

Language Arts: Socratic Seminar and Debate

Fridays: Grades 3rd-5th

12:30 -1:30PM

Fridays: Grades 6th-10th

9:00 -10:00AM

In this class, students will exercise their critical thinking skills in language arts. During Socratic seminar activities, students will participate in formal discussions about a variety of topics from multiple genres with their peers. Through these student-led conversations, they will practice listening closely to the comments of their peers, thinking critically for themselves, and articulating their own thoughts and responses to those of others. During debates, students will be required to think about and research both sides of an issue and be ready to defend their viewpoints in class. This class will occasionally have reading and writing homework to prepare for the discussions/debates in 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 (assignments will be given each day and must be brought to class on due date).

Science Classes:

Biology:

Fridays: Grades K-2nd

12:30-1:30PM

Thursdays: Grades 6th-10th

2:00-3:00PM

This class will be individualized to be developmentally appropriate for the different ages. The focus will be on the foundations of biology to understand the many forms of life on Earth. We will learn Scientific Method as a means to examine the world around us, from microscopic and unicellular to complex and diverse. With a focus on labs and interactive activities, we will formulate hypotheses, make observations, and carry out experiments. It covers a general introduction to cell structure and function, ecology, evolution and population genetics, animal development, and plant development. In today's era of climate change, studying biology is even more essential: in understanding the issues facing life on Earth, hopefully we can ignite a deeper appreciation that will aid in the urgent effort to preserve it.

Foundations of Science:

Thursdays: Grades K-2nd

12:30-1:30PM

Students will continue to develop the foundations of Physical, Life, Geological, Cosmological and Social Sciences while participating in interactive and fun hands-on experiments and projects.

Science Fair:

Mondays: Grades 3rd-5th

9:00-10:00AM

Mondays: Grades 6th-10th

2:00-3:00PM

This cross-curricula course will give students the opportunity to create and perform their own science fair project. The class will be combined with the Language Arts course offered on Mondays and will give students a deeper understanding of the scientific method. The first half of the class will involve hands on experiments that explore different areas of science (chemistry, biology, physics), and the latter half will have students creating their own experiment to perform. Some outside-of-class work/research may be required. (If a student plans to take this course without the accompanying Language Arts class, please contact Allan beforehand).

Earth Science: Eco-Geology

Tuesdays: Grades 3rd-5th

2:00-3:00PM

Tuesdays: Grades 6th-10th

9:00-10:00AM

Continue our exploration of the planet in the second part of our geology and earth science course. This class will build on previous earth science knowledge, but will expand into environmental science, including some biology and astronomy. Every class will involve hands on experiments to help students learn about the world around them.

STEM and Art

Fridays: Grades 6th – 10th

2:00-3:00PM

Turn STEM into STEAM in this exciting hands-on course that will delve into the connection between science, technology, engineering, math and art. The class will include some art history, as well as hands on art projects, and some practice with critique. Projects will include the chemistry of photography, the math of printmaking, and the tech of Virtual Reality, and will encourage students to think creatively, with a self-driven final project.

Technology, Engineering, Coding & More:

Foundations of Engineering:

Thursdays: Grades K-2nd

12:30-1:30PM

Students will work on developing the foundational engineering skills to prepare them for future STEM careers. They will build projects using physics and science principles found in electrical, mechanical, chemical, and structural engineering. All activities will be hands on and age appropriate.

Foundations of Technology:

Fridays: Grades K-2nd

2:00-3:00PM

Students will work on developing the foundational technology skills to prepare them for future STEM careers. The topics that will be covered include learning the basics of computer and iPad care and safety, typing, screen time usage, virtual reality, apps for learning, computer hardware, building a computer, and much more! All activities will be hands-on and age appropriate.

Technology:

Thursdays: Grades 3rd – 5th

12:30-1:30PM

Students will continue their exploration of technology in the 21st century by developing their technology fluency while learning more about computer hardware and software. The students will learn how to create animated gifs, Powerpoints slides, google docs, .wav files, and much more. We will also revisit new applications of virtual reality and 3D printing.

Architecture and Engineering:

Tuesdays: Grades 3rd – 5th

12:30-1:30PM

Thursdays: Grades 6th – 10th

9:00-10:00AM

Students will explore the physics of building and construction, as well as develop an understanding and appreciation for historic architectural styles. Spanning from the temples of Ancient Greece to the designs of Frank Lloyd Wright, this class will culminate with a case study project, where students will design or analyze a work of architecture in depth. Potential field trip opportunities to landmarks around Los Angeles!

STEM History: World Renaissance

Tuesdays: Grades 6th-10th

2:00-3:00PM

Fridays: Grades 3rd – 5th

9:00-10:00AM

This class will explore innovation in the fields of science, technology, engineering, and mathematics from the Medieval and Renaissance eras of World History. From the Great Wall of China, to Da Vinci's inventions, to the architecture of Africa's Songhai empire, students will build connections to the past through hands on STEM challenges and creative projects.

Brain Games: Grades K-2nd

Tuesdays 9:00-10:00AM

This class is designed to help students develop their logic, reasoning, and problem-solving skills through fun, and dynamic games and puzzles. Students will practice working as a group, learning collaboration and cooperation skills in a meaningful and fun way. All levels of math abilities are welcome!

Computer Coding Classes:

Beginning Coding: Grades K-5th

Thursday 2:00-3:00PM

This class will focus on helping students develop a strong foundation for programming and 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 when ready. New coding and new apps will be created that will be different than the 1st semester.

Advanced Coding: Grades 5th – 10th

Thursday 2:00-3:00PM

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.

Improv Classes: Grades K-10th

Thursday: 2:00-3:00PM

One of our most popular classes returns with new games and improvisational play. 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. This class will teach leadership skills and help develop confidence.

ASTEME 2nd Semester Schedule

	Monday			Tuesday			Thursday			Friday		
830-900												
900-1000	K-2 Math	3-5 Science Fair	6-10 Language Arts	K-2 Games & Problem Solving	3-5 Math	6-10 Earth Science: Eco-Geology	K-2 Foundations of Science	3-5 Math	6-10 Architecture and Engineering	K-2 Math	3-5 STEM HISTORY: WORLD RENAISSANCE	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 Community Explorations	3-5 STEM Community Explorations	6-10 STEM Community Explorations
1200-1230												
1230-130	K-2 LEGO: Part 2	3-5 Language Arts	6-7 Math	K-2 Language Arts	3-5 Architecture and Engineering	6-7 Math	K-2 Foundations of Engineering	3-5 Technology	6-7 Math	K-2 Foundations of Biology	3-5 Language Arts	6-7 Math
			8-9 Math			8-9 Math			8-9 Math			8-9 Math
130-200												
200-300	K-2 Language Arts	3-5 Math	6-10 Science Fair	K-2 Math	3-5 Earth Science: Eco- Geology	6-10 STEM HISTORY: WORLD RENAISSANCE	K-2 Math	3-5 Intro Coding	6-10 Biology	K-2 Foundations of Technology	3-5 Math	6-10 STEM and Art
								5-10 Advanced Coding				
								3-5 Improv	6-10 Improv			