

Session One: June 17 - July 5

MORNING 9:00-12:00

STEM Challenges: Engineers & Architects (8-10) Linda & Nate

Cost: \$887

In this newest edition of Engineers and Architects, we will be exploring the strength of different shapes in building, the best materials for the job, what makes a material sustainable, and how to make a structure able to endure an earthquake. We will also look at how to blend your home into the landscape and how to use unusual materials to go "off the grid".

Beginning with pyramids, temples, and shrines of ancient cultures we will explore architecture throughout history. We will explore the technological advances as well as aesthetics that defined each period including Classical, Byzantine, Romanesque, Gothic, Renaissance, Baroque, Art Nouveau, and Art Deco, to a look at what inspires modern Architects today.

We will also explore boat design in our various challenges, stability vs. speed. Each day will be filled with STEM challenges that will test and strengthen the kids' problem-solving muscles. In addition to also designing and building a unique and unusual model tree house that incorporates the lessons of strength and sustainability, we will delve into the physics of why and how these concepts work.

Journey to Hogwarts (8-10) Kimber & Nate

Cost: \$887

Let your imagination run wild! From hippogriffs, dragons, house elves, basilisks, and owls, to sorting hats, dementors, potions, spells...and all things magical, come join us for the time of your life! During your three weeks at hogwarts, young wizards and witches will immerse themselves in the world of Harry Potter through imaginative projects and magical experiences. Create your own Mandrake, sculpt a Dobby or Kreacher house elf, draw mythical creatures, make a Marauder's Map, brew up Butterbeer, create your own wand and Death Eater's mask, Patronus, chocolate frogs, and lots, lots more!

Not only will we be brushing up on our magical skills but we will also work on developing our muggle skills within literacy, math and science through our Journey to Hogwarts! Kids will dive into chemistry during potions class, hone their problem-solving skills through logic puzzles & math challenges, and use these amazing books as inspiration to write our own magical adventures.

AFTERNOON 12:30-3:30

Arcade Game Design with Fusion (8-10) Digital Dragons

Cost: \$980

Kids, whether they are an experienced game designer or new to this game, will be given all the tools and knowledge they need. With a focus on recreating classic arcade games and console games for practice, kids will walk through the processes of storyboarding and design--building on and learning the skills necessary to craft their own custom interactive game.

Early Entrepreneurs: Build Your Own Business (8-10) Nate

Cost: \$887

Have you ever wanted to set up a lemonade stand or a small business but you weren't sure how to get started? Well, this is your class! Kids will saturate themselves with experiences, observations, encounters, and information to help them understand how businesses are built and run. Students will search for what inspires them and then they will dig deeper into research while designing creative ways to showcase their knowledge and insights.

We will be creating our very own small businesses, fundraising to supply them, and running them for our peers and parents! Bonus - we will practice our money math skills at the same time! Come set up shop with Nate and run your business in REALM-ville! Prepare to investigate real businesses, make insightful discoveries, do research development, and to create a memorable event and showcase! This will be mind-blowing goodness!!

Session Two: July 8-26 (3 week session)

MORNING 9:00-12:00

Summer Literacy Boost! Reading, Writing, Thinking (5-7) *Jessie*

Cost: \$750

As our blossoming readers and writers transition from “learning to read” to “reading to learn,” reading comprehension and writing craft take center stage. Students will learn to monitor their comprehension using fun strategies and helpful tools that can be applied beyond the classroom. Learning to engage with text as readers will also inspire our growing writers as we study the craft of mentor authors in powerful children’s literature. We invite students to dive a little deeper into your reading and writing life, and to empower themselves towards independence!

In our writers’ workshop, kids will gain a new awareness and appreciation for the small everyday moments of our lives that are worthy of an “author’s eye” retelling. Published authors will be our mentors as we share books that ignite our memories of people, places and events that have helped to shape our young lives. We will explore memories connected to emotions as we practice telling “the inside story,” stretching our writing with vivid detail. To support this delicate stage of a writer’s growth, we will explore the parts of the writing process, providing helpful strategies for gathering and developing ideas, drafting, revising and editing. We will also foster connection as we share our human experience stories in our writers’ celebration at the end of the session.

The Body: Cells, Immunity, & What Can Go Wrong (8-10) *Linda*

Cost: \$950

Individually they are microscopic, yet they are the building blocks of every living thing on Earth. By understanding how cells work we discover how we, ourselves, function as intricate and complicated living machines. This exploration into inner space takes us to the center of it all, the blueprints of life and the various structures that support the life of all animals, from a single celled organism to the multi-organ, highly specialized systems of human beings. This class includes the study of cell structure and function, cell division and reproduction, unicellular organisms and the cells of different specialized tissues through the creation of models and other experiments and hands on activities.

This physiology class will then dive deep into the study of the human body and its systems. Just to get a little gross and really fun we will also examine pathogens (bacteria, viruses, prions, fungi, and various parasites) and how they affect the human body. We will also explore the many levels of protection our bodies employ to protect itself as we study the immune system. We will do this through hands-on activities, projects, and model building. We will be seeing many pictures of what it looks like when invaders get the upper hand. This is not a class for the squeamish!

Amusement Park Math: STEAM + The Pier = Awesome (8-10) *Nate*

Cost: \$950

Do you love roller coasters? Or buying delicious snacks at concession stands? How about timing a fast pass so that you avoid lines? Then you will love creating your own amusement park that’s full of rides, food, tickets, people, and whatever else your imagination can inspire. This summer, kids will use math, physical science, and creative problem solving skills as they imagine and design their own amusement park.

Using money math, budgeting skills, and graph paper, designers will develop the next great theme park. Creating marble runs, pendulum and spinning rides will teach kids the basics about velocity, gravity and inertia. After mastering these skills in the lab, kids will test out these principals in real life. Everyone put your hands up and get ready for the ride of your life!

Living on the Edge of Awesome: Climbing, Flying, and MORE! (11-14) *Kara*

Cost: \$1150

This class is all about building grit, courage, and a sense of adventure! Each week, students will learn more about themselves and others through games, challenges, and mini-lessons on overcoming fears, the power of positive thinking, and developing a powerful growth mindset. They will then be given the opportunity to challenge their growth through conquering some amazing tasks: a full-on high ropes course with Fulcrum Adventures, flying through the air on the trapeze at the Santa Monica Pier, and learning to surf at the Santa Monica beach! Other excursions will include rock climbing, hiking, and more!! Come with us and live on the edge of awesome.

AFTERNOON 12:30-3:30

Mad Science: Experiments and Hands on Exploring (5-7) Nate

Cost: \$950

The Little Chemists are going to explore the world of chemistry with hands-on, fun-filled experiments. These projects will not only give them answers to many of their questions about how and why things happen, but also give them more questions that will help them curiously explore their education in science. Our Mad Scientists will don their lab coats and their goggles and dive deep into the molecular world of chemical reactions as they blast off into how and why things in our universe happen the way they do!

Living on the Edge of Awesome: Climbing, Flying and more (8-10) Kara

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This class is all about building grit, courage, and a sense of adventure! Each week, students will learn more about themselves and others through games, challenges, and mini-lessons on overcoming fears, the power of positive thinking, and developing a powerful growth mindset. They will then be given the opportunity to challenge their growth through conquering some amazing tasks: a full-on high ropes course with Fulcrum Adventures, flying through the air on the trapeze at the Santa Monica Pier, and learning to surf the waves at the Santa Monica beach! Other excursions will include rock climbing, hiking, and more!! Come with us and live on the edge of awesome

Marine Biology and Oceanography (11-14) Linda

Cost: \$950

71% of planet Earth is water, making it an essential ingredient of life as well as home to millions of species of plants and animals. This class explores these vast bodies of water from the wavy, white-capped surface to the rugged and extreme topography of the ocean floor with its hydrothermal vents. Through experiments and hands on activities students will discover what causes waves, currents, and tide, investigate the chemical makeup of seawater, take a closer look at food webs, and consider the interaction between life in the ocean and the physical aspects of the water itself.

Students will research and create models, posters, dioramas, and board games to represent the various marine environments. Together will construct a body of work that depicts the physical factors (temperature, pressure, salinity, movement, amount of light, etc.) and the biological factors (flora, fauna, food webs, weird and wonderful adaptations, etc) of shorelines, continental shelf areas, and deep sea abyssal plains. This class will include frequent trips to the beach and a visit from the Venice Oceanarium!

Session Three: July 29- Aug 16 (3 week session)

MORNING 9:00-12:00

REALM Kid's Cafe (5-7) Nate

Cost: \$950

I firmly believe that every human being who aspires to achieve greatness should work in a restaurant for at least one year. From the amount of people you encounter and the different personalities that you bend to, to the multi-tasking, mathematics, patience, teamwork, common sense, compassion, leadership, respect, food safety, critical planning, time management, etc. that are all part of the job, you acquire a vast spectrum of life skills all in one place. Well, we don't have a year but we have 3 weeks! So let's practice those skills and get a jump start on the well rounding of our persons in a super fun restaurant and cooking class. The REALM Bistro will come alive at the end of the semester as we open the restaurant to family and friends!

LEGO Robotics and Engineering (8-11) Digital Dragons

Cost: \$1050

In this class, students will explore the evolving world of robotics, learning how to build, program, and perfect your very own robots. Using LEGO robotics kits, they will learn to build and program robots - integrating motors for moving parts, and sensors to take input from the physical world – to complete a variety of challenges.

Nature Tribe: Surviving in the Wilderness (8-10) Kara

Cost: \$950

How did people survive life on the mountain 500 years ago and how do people survive living outside today? In this class students will learn how to live sustainably on a mountain. Students will acquire orienteering, fire ecology, and ethno-botany skills that will help them

lead a more sustainable life. In addition to sustainable living skills, the students will also become Leave No Trace certified and be able to teach others the 7 leave no trace principles in being a steward of the land. Did you hear about the mountain joke? It was hill-arious!

How Numbers Work in the Real World (11-14) Joe

Cost: \$950

Wouldn't it be great if there was a magic wand that could help you really understand math? Good news, there is, and his name is Joe!! Get ready to solidify your math skills in this intense discovery of how numbers work in real life. Kids will jump into an exploration of the mechanics of numbers. We'll start from scratch and look at where numbers came from - their tangible roots in counting adding and subtracting, and then we'll watch them grow in versatility as the arithmetic operations expand to reveal evermore fascinating patterns, relationships and functionality. Focus for this course will be on Factors, Multiplication, Ratios, Relations, Series and Sequences and how this all applies to real world application.

Emphasis will be placed on the review of essential concepts and the building of excitement around math as we approach the return of the school year. Students will be encouraged to think of math beyond the classroom - to look at math as an opportunity to discover and explore!

AFTERNOON 12:30-3:30

Musical Theater: Rockstar Dramatics...into the Mystical Forest (5-7) Kids on Stage

Cost: \$1050

Journey through the world of imagination and invention. Sing classic and popular music along with imaginative theater, dance, character development and costumes. Each week's songs will be interweaved in an original improvised "Play-of-the-day." Every child is encouraged to share ideas and shine in a non-competitive, inspiring environment that develops self-expression, self-confidence, body awareness, social skills and joy! This experience ends with a final performance on the last day.

Journey to Hogwarts Nate

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Digital Film Production: Commercial, Public Service, and Art Digital Dragons

Cost: \$1,050

You are the voice of our generation, come and learn how to make your voice heard!! In this activism-based class, kids work together to script, plan, shoot, and edit several different video projects, each touching on a different realm of film production--commercial, public service, and artistic production. Through the creation of commercial projects, short form documentaries, promotional videos, and public service projects kids will identify a message that benefits their school or community and develop it into a video public service

announcement. Kids will also have the opportunity to explore other artistic ways to share their vision such as music videos, narrative or experimental films. Join In, Speak Up, Change the World!