

## Summer Kick-Off: June 10- June 14 (1 week session)

FULL DAY 9:00-3:00

### Art and Outdoor Adventurers: REALM Style (4-14) Kara & Nate

Cost: \$379

Let's start the summer with a celebration of the amazing outdoors. This week will be all about feeling the sun on our face, the wind on our back, and the surf at our feet. Kids this week will travel outside of The REALM for fun in the sun. Each day will begin with a dance party, arts and crafts, or games. We will then head out to local parks, beaches, and hiking trails to breath in the sweet fresh air! Kids will get wet, play in mud, and enjoy being kids! Options for coming early and staying later are available.

## Session One: June 17- July 5 (3 week session - no class July 4)

MORNING 9:00-12:00

### Adventures in Robotics (5-7) Digital Dragon

Cost: \$980

Young tinkerers will dive into the world of engineering technology, interacting and learning with robotics and tools that bring their budding programming skills into the physical world. Students receive repetitive, early exposure to the engineering process through fun, hands-on activities utilizing LEGO WeDo, LEGO Mindstorms EV3s, and other robotics platforms.

### Nature Tribe (5-7) Kara

Cost: \$887

There is no better way to learn during the summer than doing so outside!! Kids this week will travel outside of The REALM for fun in the sun. Each day will begin with a story, interesting specimen, or a lesson from mother earth. Together, we will learn to work and play as a tribe. We will play trust games, collaboratively solve problems on our adventures, and see how team work really makes the dream work! We will then head out to local parks, beaches and hiking trails to breath in the sweet fresh air! Kids will get wet, play in mud, and enjoy being kids while learning how to respect and appreciate our mother! We will also all learn and demonstrate how to be ambassadors for our earth while kids earn their Leave No Trace certification!

### 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

## REALM Summer 2019 Class Descriptions

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.

### **Woven Words: Writer's Bootcamp (11-14) *Bonnie, Michelle, & Lynelle***

**Cost \$887**

**Week 1: Pens at the Ready! This week the kids will write stories they are simply itching to tell.** We will learn creative writing techniques that will add color to our writing, create irresistible characters, form a setting that comes alive, and mold an enthralling story plot. Throughout our story-writing journeys, we will also learn the art of editing through respectful peer reviews and sharing of work in a workshop-style manner. By looking at the examples of famous novelists and mastering writing tools, we will plan, draft, write, edit, and even publish our stories!

**Week 2: This is a no-nonsense approach to Essay Writing.** Writers will practice building 5-paragraph essays using writing resources and will push their writing muscle to its fullest potential. Their writing stamina will increase through increased independent writing time with one-on-one conferencing and group mini-lessons. They will learn the vocabulary needed to produce impressive papers and to become inspired to show off their own growing vocabularies. Both homework and a commitment to staying organized are key to success this week!

**Week 3: Lights, Cameras, Screenwriting!!** This week kids will examine screenplays and learn the art of bringing stories to life on the big screen. Using "Toy Story" as our guide, kids will learn how tension is created, characters are developed and how all of this goes from idea to script. Kids will work together to create a collaborative new screenplay that could be the next hollywood hit!

## AFTERNOON 12:30-3:30

### **Young Zoologists: Exploring the Animal Kingdom (5-7) *Linda***

**Cost: \$887**

The animal kingdom, in all its fantastic diversity, is infinitely easier to explore and begin to understand when we organize and classify its members. In doing so the secrets of our own evolution begin to reveal themselves! As early as Aristotle, people have theorized on why and how animals look and act they way they do. Why do some, like the orangutan, seem so much like us while others, such as the octopus, seem as though they could be aliens from another planet?

As we journey through the animal kingdom, kids will represent animals through incredible creative art projects, board game design and photography as we get up close and personal with our furry (and slimy) friends with a visit from the Eco Station!

Kids will also become authors of a picture book that tells a story about the day in the life of an animal in their environment. Developing research skills and learning the craft of storytelling through words and pictures are the focus of this class. We will use books such as Stellulara, Verdi, Diary of a Worm, A Color of His Own, Pinduli, and many of the Eric Carle books as inspiration.

### **Arcade Game Design with Fusion (8-10) *Digital Dragon***

**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.

## REALM Summer 2019 Class Descriptions

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!!

### **The DaVinci Code: The History, Art, and Great Minds of the Renaissance (11-14) Kimber**

**Cost: \$887**

In this unique history exploration and cool art class, students will go through the life, art, and creations of Leonardo da Vinci. This amazing archetypal "Renaissance Man" was an architect, sculptor, painter, mathematician, scientist, botanist, inventor and engineer-centuries ahead of his time. As famous for his paintings of the Last Supper as he was for devising plans for the helicopter, tank and solar power, he also advanced the study of anatomy, astronomy, and civil engineering. In the same 24 hours a day that we all have, he sure was busy!

Leonardo was also not afraid to take risks and explore his many interests. Students will be challenged to think about things that interest them and how they would like to pursue those interests. What do they see themselves becoming really skilled at? What are they willing to do to accomplish those goals? While learning all about Leonardo da Vinci through fun art, stories and exciting hands-on projects, students will also travel through the Renaissance period and explore the fascinating history, people, culture, arts and science of the times. Session will include, outdoor journaling, and sketching, tinkering, inventing and more! Huzzah!

## 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 Human Body: Cells, Anatomy, & 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

## REALM Summer 2019 Class Descriptions

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!

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### **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 Dragon**

**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? Kids will learn how to live sustainably on a mountain! They 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...The Adventures of Charlotte's Web (5-7) Kids on Stage**

**Cost: \$1050**

**Act Out! Imagine! Create! Perform!** Explore the theatrical world of Charlotte's Web through theater games, songs, choreography, character development, performance skills and art! Campers begin each day with an art specialist then rehearse with a theater professional exploring; characters, scene studies, songs, choreography working towards their presentation. Everyone is encouraged to share ideas in an inclusive, inspiring environment that helps develops self-expression, confidence, body awareness, social skills, and joy! For lovers of theater novice to advanced! Your artistry will culminate with a Presentation on the last day of camp!

#### **Journey to Hogwarts Nate**

**Cost: \$950**

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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 all students' problem solving muscles. In addition to also designing and building a unique and unusual model dream house that incorporates the lessons of strength and sustainability, we will delve into the physics of why and how these concepts work.

### **Digital Film Production: Commercial, Public Service, and Art** *Digital Dragon*

**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!