

Please review the Fall 2019 Class Schedule for age ranges of individual classes.

3-D ART AND BEYOND (Linda) (9+) *Art*

Students will explore ways to express their emotions and ideas visually and three-dimensionally. Taking inspiration from famous sculptures, nature, and our own imaginations, we will create works of art from a variety of media.

3D GAME MAKING WITH KODU (Digital Dragon) (8+) *Technology*

You are now entering the 3rd dimension! Utilizing Microsoft's Kodu Game Lab, students will explore building miniature worlds in a 3D space, adding interactive game elements, and using a simple visual coding language to program their projects. Kodu's kid-friendly user interfaces bring 3D game world creation within reach for young game designers.

A-Z SOCCER (Manuel) (6+) *Physical Education*

A-Z Soccer Academy classes are a Montessori-style of play similar to street soccer where kids learn through experience, problem solving, and active fun. Creativity and self expression are key parts of our classes. Our goal is to keep the kids moving while continuously building their soccer skills and confidence on the field.

ADVANCED CHESS (Joe) (8+) *Chess*

Chess is a fascinating game with a long and prestigious history. It has been played by great mathematicians, scientists, artists and creative and intelligent people of all types (as well as by just ordinary people like you and me) for hundreds of years. Many people would say that there is not a more enjoyable, challenging or educational game than chess. Maybe the most surprising thing about chess though, is that kids love it! This class is fun for the more seasoned player that's learning about strategies, move sequences, endgames and feints.

ADVANCED MATH (Ryan) (9+) *Math*

In this fast-paced math class, we will explore advanced multiplication, division, adding, subtracting, squaring, square rooting, cubing and cube rooting (both in their heads and on paper.) We will also work on problems using the major order of operations which will include every operation and negative numbers. Students will then learn and explore how this knowledge translates to real world application as we figure out percentages, discounts, cooking proportions or bartering for the best deal! The goal is to challenge brains and stretch thinking in our young mathematicians.

ADVENTURES IN ART (Linda) (5+) *Art*

The adventures continue with all new projects and materials. Artists can freely express their creativity, inventiveness and wacky sense of humor and aesthetics in this process-focussed art class. The emphasis will continue to be on enjoying the ride, letting go of preconceptions, and experimentation.

ALGEBRA (Semester 1 of 2) (Joe) (11+) *Math*

In Algebra students will really begin to discover some of the exciting things math can allow them to do. Students will begin using all the arithmetic skills they've been developing over the past few years to begin solving riddles and puzzles that would otherwise seem impossible. Algebra helps students develop problem-solving strategies and skills, and the ability to recognize, express and work with mathematical relationships.

In this class we'll learn about:

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- Integers, variables, terms and expressions
- Properties and characteristics of rational numbers
- Algebraic equations and inequalities
- Solving linear equations and graphing of points and lines
- Solving systems of linear equations
- Monomials and polynomials - factoring quadratic equations
- Working with rational expressions
- And if we have time second semester, we'll do a little intro into:
- Irrational and complex numbers
- Working with functions

The two class meetings each week will be supplemented with ungraded at home practice assignments.

Topics and concepts covered and additional resources are available at www.joesclasses.wordpress.com

ALIENS AND UFO'S (Linda) (5-10) *Art, Social Studies*

The question "Are we alone in the universe?" is as old as our ability to look up at the stars. Aliens and UFOs permeate our pop culture through books, radio, tv, movies, etc. They appear as superheroes, monsters to be feared, creatures to be protected from evil government scientists, and thousands of other variations throughout the science fiction genre. We will explore the scientific possibilities and Fermi's paradox, listen to stories of people who truly believe they were abducted, discuss Area 51, write a comic book, create a great alien city on a distant planet, and make model Aliens and UFO's.

ANDROID APP DESIGN WITH APP INVENTOR (Digital Dragon) (11+) *Technology*

Application development is a crucial skill that virtually all of today and tomorrow's industries rely on. By creating applications for mobile and desktop devices, students will learn how to use programming fundamentals to create tools for other users. Kids will design, prototype, and test their very own Android apps ranging from games to daily life organization and creative painting tools, all while learning basic principles of programming. We'll use MIT's App Inventor 2, which allows first time programmers to experience larger programming concepts through drag-and-drop block coding, increasing efficiency while diminishing bugs.

ANIMAL ATLAS (Kimber) (10+) *Science, Geography, Habitats, Art*

Through a wide variety of imaginative projects, fascinating stories, visual presentations and fun hands-on activities, students will travel the globe- and gallop, soar, crawl and swim with the creatures in the amazing animal kingdom. With emphasis on geography and ever-changing habitats everywhere, students will journey through the natural world to meet every kind of animal imaginable, from the familiar to the extraordinary. Students will discover wild and wonderful creatures like the walking Red-Lipped Batfish of the Galapagos Islands and about the Chinese Water Deer with their vampire tusks. And let's not forget about the dread-headed Bergamasco Sheep or the giraffe necked Gerenuks. Students will explore the connection between geography, terrain and weather to different animals and their characteristics, adaptive qualities and life skills. Students will be challenged to think about... why do some countries or regions have unique animals not seen anywhere else? Exactly how does different geography affect animal selection and development? How do different habitats around the world support different animals? What adaptations allow animals to survive and thrive? What about human impact? Exciting projects, map-making,

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crafts and animal art are used as a means of fostering a greater love and understanding of animals, geography and habitats- and the importance and impact that small changes can make.

ART WITH THE GREATS: ANIMALS (Kimber) (5+) *Art, Art History*

Lions, tigers and bears, oh my! Since the very first cave paintings of deer and bison, animals have fascinated and inspired artists. With a concentration on art pieces and “critter creations” featuring animals with fur and feathers, students in this fun and dynamic class will be introduced to well known works of art, as well as unique animal art from around the world. Through ink, paint, sculpture and funky folk art, each creative class will focus on the many elements of color, shape and texture- as well as developing skills and expanding self confidence. Students will explore the history, tools, techniques and styles of famous and inspirational artists and then, along with their own amazing imaginations, use this as a guide and inspiration to create their own animal masterpieces. Exciting projects will include art sparked by Paul Klee’s cat, Franz Marc’s blue horses and yellow cows, Henri Matisse’s and Audubon’s birds, Albrecht Durrer’s rabbits and rhinos, Frida Kahlo’s monkeys- and Andy Warhol’s and David Hockney’s dogs.

ARTIST FREESTYLE (Tommy) (5+) *Art*

Throughout my career as an artist, I've realized that having a strong respect and understanding of the process and fundamentals of drawing is essential to becoming a better artist. And what's more fundamental than pencil drawing? There are several styles of pencil drawing techniques. I will help you take your skills to the next level, whether you want to create stylized or realistic pencil techniques. We will find the style that is right for you!

Confidence building, fine and gross motor skills, cognitive skills, problem solving, learn about the elements of art, math/science/history integration, FUN and Relaxing.

Drawing and sketching with Tommy Johnson is the best place to start. Start your own path/ journey in art with Tommy and find your own style.

ASTRONOMERS & SPACE ART (Kimber) (5+) *Science, Art*

This fun, highly experimental class is all about exploring space and the billions of galaxies beyond our solar system, and then creating stunningly beautiful space art through a variety of art mediums and surface creations. Imagine glowing abstract nebula space clouds, sparkling star clusters and fluorescent spiral galaxies. Images of space and galaxies can be truly breathtaking and mysterious, and will easily inspire students in this special art class to create their own glittery planetary masterpieces. Students will work on wood, paper and larger-sized canvas using glow-in-the-dark and blacklight paints, alcohol paints, oil paints, watercolors and acrylics as the main mediums. Students will experiment with different painting techniques, including spray paint and airbrush work, masking, sponging and splatter painting. Students will also explore different surface techniques that allow for a build-up of layers and depth. And of course, this fantastic class wouldn't be complete without a culminating blacklight art show. Be prepared to be dazzled!

AWAKENING THE JEDI MASTERS (Jimmy) (6+) *Creative Play, Mindfulness*

For those Padawans who have passed through a semester or semesters of Trials, Training and real-time combat/situations, and who have shown skill in wielding the Force, welcome to 'Awakening Jedi Masters'. Every Master must start their journey as a Padawan. This class moves the Padawan further in training to reaching that ultimate goal of becoming a Jedi. Trials here get more difficult in balance, peace-keeping, self-talk, trust, spatial

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awareness, light-saber combat, contacting the Force in meditation, and wisdom. For what might befall Dagobah West this semester our peace warriors must lead the way. Having lost Rana and Nexus, the looming presence of The Raven, Darth Magnum, Dark Dragons, and the like provide enough challenge to make most turn away, but not our team. Reconciling the dark and light within, Padawans will find themselves on the way to achieving Jedi status. May the Force be with you.

BEACH-COMBERS (Joe) (6-8) *Science, Exploration*

There are many wonderful things about Southern California, but none more wonderful than the beach. For those of us lucky enough to get to spend time on the beach, a great way to make it even more special is to learn a little about it. The shore is a remarkable ecosystem, where land and water meet, terrestrial plants and animals - ourselves and others - overlap and interact with marine plants and animals, as well as the amazing life that inhabits the "intertidal zone".

Birds frequent our beaches as they migrate along their various routes. The currents and tides carry flotsam to our shore. The unique weather patterns along the beach - from morning fogs to afternoon breezes and occasional violent storms - all have to do with the shore and how water and land and air all interact. We'll explore some of the many remarkable aspects of the beach as the opportunity presents itself in between just walking along the shore, exploring and having fun!

BODY CONDITIONING (Bonnie) (8+) *Physical Fitness*

This is true aerobic and strength training. The perfect class for building full body power! Students will lunge, squat, balance, dance, and kick their way to mind body awareness. They will learn how to exercise in the most efficient ways possible and practice listening to what their bodies say to them. They will surprise themselves each and every class.

BOOK EXPLORERS: MRS. FRISBY AND THE RATS OF NIMH (Liz) (9+) *Literacy (Fluent)*

Get ready to read a book where a whole world is happening just out of sight. A world where rats build elevators, mice go on secret missions, and strangers are not who they appear to be. Mrs. Frisby and the Rats of NIMH will introduce students to a classic story of friendship and adventure. Each week we will read the book as a group and dive into reading comprehension, vocabulary exercises, and story mapping.

CAPOEIRA (Mestre Batata) (5+) *Martial Arts*

Capoeira is an Afro-Brazilian martial art that incorporates self-defense, music, dance, and acrobatics. Practicing Capoeira builds strength, coordination, flexibility, and self-confidence, and children of all ages quickly learn Capoeira given their natural agility. Mestre Batata has been teaching Capoeira to children and teens for over 30 years and has been teaching in Los Angeles since 2002.

CHEETAH RUNNING CLUB (Bonnie & Jimmy) (8+) *Health & Fitness, Running*

Season 5 of the steadfast Realm Cheetah-Wolves Running Club. This class calls on students to stay positive and keep on moving. Teamwork and individual pride is built through rigorous distance, hill, beach, and track running drills.

COMIC CRAZE (Liz) (7-10) *Literacy (Transitional)*

Modern culture is strongly influenced by comic books. From movies, to television, to clothing, superheroes and their stories are at the forefront. In this class we will look at the Heroes Journey to see how these stories have ancient

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roots and then zoom into modern times to see how comic books are leading the future of storytelling. We will be looking at the history of famous heroes and heroines, look at how comic books are designed to tell a story, and finally create our own comic book.

COMPOSERS LOUNGE: SONG WRITERS (Jimmy) (6+) *Music, Creative Writing*

Be-bop-a-Lula! Can we achieve uncovering and unearthing those sweet unheard melodies? Of course we can! For students adept at music in some form, or those with no background, Jimmy will help you find your voice in song. With great success over the past few years Songwriting class helps kids express themselves in song. We will study arranging: verse-chorus-bridge. We will study parts of the song: the beat, the melody, the chords. We will work on identifying why we like what we like in modern pop and rock music. Jimmy's rhyme-scheme will be deployed and students will learn to befriend the blank page. We will put it all together at the end with a recording of the student's work. Come join us.

CRAFT FAIR FOR A CAUSE (Chie) (7-10) *Arts & Crafts*

The kids will be Etsy-level in no time! They'll create exciting lines of everyday products that they'll be selling, and donating all profits to a charity they select. Some examples of products will be sculptures, stitch work, plant holders, body care, and hangers.

CREATION STATION (Kara) (5+) *Art, Sustainability*

What can we make out of paper, or felt, or even trash? Want to learn how to sew a stuffed animal, crochet, make friendship bracelets, or origami? In Creation Station, the students will tap into their creative side and create wonderful pieces of handmade art. Students will learn how to be more sustainable and reduce our waste by creating fun and beautiful projects as well as using various materials to form their own, individual creations!

What did the artist draw before he went to bed? The curtains!

CREATURE FEATURE MASH UP (Jean) (5+) *Art*

Kids will choose to learn about two of their favorite living creatures and then mash them together to create a new Super Creature! They will then create their new super creature out of clay, paper mache, cardboard or any other materials they would like to use. We will create an entire new group of Super Creatures. Requires pure fun and imagination!

DECIMALS, FRACTIONS & PERCENTAGES, OH MY! (Ryan) (8+) *Math*

The goal for this class is to get all the students to a much better place of understanding on all 3 of these topics and how they all work together. This type of class is ongoing and can be repeated as many times as you like. Whether you have an excellent understanding of multiplication and division or you are still fine tuning that skill, this will be a great class for you to take.

DEEP DIVERS MATH (Semester 1 of 2) (Joe) (9+) *Math*

This class is for upper-elementary students who want to make sure they're 100% complete on all grade-appropriate educational standards. This class will serve to prepare students for our Pre-algebra course. Deep-diver Math class will combine general topic presentation and explanation with independent in-class work at individualized pace and level. Each class session will begin with a 15 minute topic mini-lesson, which will be followed by independent

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teacher-supported student practice. In-class and at-home assignments will utilize the Khan Academy online interface. Deep-diver Math is a multilevel course and can be repeated for any number of semesters while the student prepares for pre-algebra.

Deep-diver Math could also be appropriate for students who wish to supplement their Pre-algebra or Algebra class with foundational review.

DENDROLOGY: THE STUDY OF TREES (Kara) (5-10) *Earth Science, Botany*

Why are trees so important to human survival? What different types of trees are in Santa Monica? How does a tree grow? In Dendrology, students will dive deep into the inner workings of trees! We will learn everything from the root systems to the leaves at the top of the tree. Students will also learn what it takes for a tree to grow and about the many different types of trees around us.

What does a tree wear to a pool party? Swimming trunks!

DO RE MI CHORUS (Dragana) (8+) *Chorus*

Broadway, Main-Stream, Jazz, Beatles, World music, Choral Music. We will introduce the most exciting age-appropriate musical repertoire that will call for swing, movement, and other forms of creative expression. Combine it all with beautiful singing, and you got a show choir!

DO RE MI - MUSIC APPRECIATION AND CHORUS (Dragana) (5-8) *Music, Chorus*

Let's explore Classical Composers, Rhythms of Latin America, Jazz and improv, European musical roots, and more. Our favorite music appreciation class will introduce different monthly musical themes covering a variety of musical genres, styles, artists!

With each theme, we will bring theme-related songs that we will learn to sing together, creating our unique choir. So get ready to travel through time and discover a whole new world of musical treasures while building your singing repertoire.

DREAMERS: FUTURE THINKING...AN AWAKENING PLANET (Kimber) (5+) *Research, Art*

This semester the REALM will be cooperatively examining how we are living, the impact of our habits, our choices regarding our habits, and the outcomes that are associated with those choices. We will tackle this with three groups: Quest, Journeys, and Dreamers. Quest and Journeys will engage in outside and inside the REALM learning blocks. Dreamers will participate for an hour a week. The learning from all groups will be captured through art and research. This will evolve into an art installation which will find a home in places that can inspire curiosity and raise awareness.

The Dreamers will engage in Future Thinking: An Awakening Planet through Art.

DREAMSCAPE (Jean) (9+) *Art, Self-awareness*

Everyone dreams. Even you. You may not remember your dreams or pay them much attention but they come to you with love, bringing deep messages about yourself that only you can know. Let's learn how to draw on the wisdom of our dreams! We will practice keeping dream journals and create art based on our dreams.

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EARLY AMERICAN HISTORY (Nathan) (10+) *History*

Starting with the original thirteen colonies we will work our way west with the settlers and dive into their experience. We will meet prominent historical figures like the founding fathers, Daniel Boone, Lewis and Clark, Abraham Lincoln, and many others. Students will understand how the United States came to be what it is today by covering important events in US history and the geographical changes our country has experienced in the last 243 years.

EDITOR'S PLAYGROUND (Bonnie) (11+) *English*

This class is for those writers (or critics) who aim for near perfection. We move SLLLLLOWWWLLLLYYY in a quiet environment, dissecting the components of model essays, then redesigning them to be more powerful works. Students will learn and determine all of the components of exceptional writing and become well-versed in the pedagogy of English. An added bonus is that they will be *reading* essays too; the more exposure that they have to this writing format, the easier it will be for them to create their own. Expect routine homework, please.

EGGHEAD EXPLORERS (Professor Egghead) (5-9) *Science*

Strap on your gear, get on your binoculars, and join the Egghead Explorer Squad as we fizz, pop, mix, and experiment our way around the Earth! As Egghead Explorers, students will make a sundial to keep track of the time, a flashlight to see in the dark, fake tar pits, fossils, volcanoes, snow, magnetic bumper cars, and tons more. The best part? They get to take it all home! All Eggheads will also get their Explorer ID card, authorizing them to use real science to explore the globe. At the end of the session, students will receive an Egghead Explorer Degree.

THE ELEMENTS GAME (Joe) (8+) *Science*

This class explores the periodic table, its groupings and periods, atomic structure, and characteristics of individual chemical elements. There will be two primary aspects to each class meeting. We'll begin each week by doing brief research on the table itself or on a specific group or block of elements. Students will collaborate on reading and interpreting information and will then work together to answer a series of related questions. Following that, we'll explore the elements through gameplay.

Students can learn as we go, or access the game questions and answers - plus extra information - via <https://joesclasses.wordpress.com/other-classes/the-elements/> for at-home practice and study.

ENGINEERS AND ARCHITECTS: STEM CHALLENGES (Linda) (8+) *Science*

This is a project-based class, where kids will be given a timed, open-ended challenge with a limited set of materials. They will have to design, experiment, and solve the problem. Students will explore the types of forces at work with each type of structure, what shapes are the most stable and the strongest, and the properties of different types of materials to choose which ones work best in a given situation. We will use the design/engineering process to create innovative solutions to the challenges, and learn from mistakes in order to improve upon our ideas.

EQ: MINDFUL CONNECTIONS (Lindsay Henry) (9+) *Social-Emotional*

Becoming an emotionally intelligent and socially adept pre-teen and teen is truly a gift. As children become older, emotional intelligence and social skills development become at the forefront. Children are immersed in the social

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world every day. Their ability to be attuned to their emotions, others emotions and effectively problem solve is important to their everyday life. With our EQ program, children will be exposed to unique and engaging lessons that will develop emotional intelligence and foster positive relationships. They will then build relationships and skills through unstructured play with the support of our instructors.

Our program will be dedicated to teaching what are now called, “21stCentury Skills”. We will dive into the ins and outs of becoming effective and efficient problem solvers, understanding relationships and our emotions affect them, empathy and good interpersonal relations, and how to grow friendships both new and old. We have developed a program that will be modified based on the group dynamics and the goals of the families enrolled.

EQ: TOGETHER WE PLAY (Lindsay Henry) (5-8) *Social-Emotional*

The We Thinkers! Social Problem Solving Curriculum is an engaging, effective program that targets important social skill areas for children as young as 4 years old. Teaching Social Thinking and developing Emotional Intelligence as part of early development can support many areas of social development. These areas include; development of cooperation, self-regulation and executive function, collaborative play, negotiating, and participating in collaborative conversations and pretend play.

This is an approach that teaches social concepts in concrete, engaging and fun ways. With storytelling, engaging visuals and manipulatives, children further develop the tools to be supportive, cooperative, leaders and problem solvers. They improve upon their overall ability to be aware of how their actions impact their peers, teachers, and their immediate environments. In turn, our young students develop their emotional intelligence which impacts so many areas of life.

ESSAY EXPANSION (Bonnie) (11+) *English*

Students in this class have essay structure down. They are seasoned in the entire writing process and especially want to make their Non-Fiction writing more colorful. In this class, they will have permission to choose their own topics, with the expectation that every one of their final products is something that they are proud of. Let’s experiment with sentence structure, rhetorical questioning, changing tone, academic and informal vocabulary. Let’s make synapses that must be thoroughly explained. Demonstration of consistent work ethic and regular homework completion are key components for success in this course.

EVOLVING WRITERS: DEVELOPING THE 6 TRAITS OF WRITING (Brittany) (8+) *Literacy*

This course will teach the important modalities of critical thinking and creative expression through various types of writing, both fiction and nonfiction. Students will be introduced to the Six Traits of Writing—an effective and widely used set of writing tools— and will be guided through activities and exercises for each trait. Working with the Six Traits will help students learn how to develop clear and balanced pieces of writing. Exercises and activities will include brainstorming, writing prompts, outlining, attention-getting strategies, word choice enhancement, sentence fluency practice, and more.

EXCURSIONS: SCOTLAND (Semester 1 of 2) (Jessie & Joe) (12+) *Travel, Research*

Must apply for entry.

Excursions is a year-long class designed to challenge students' current worldview as they research, collaborate, plan, and fund a travel adventure. We'll begin by choosing a destination and saturating ourselves in its history, culture,

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geography, and beauty. Once we've gotten a bit of a feel for the place, we'll plan our itinerary. We'll ask ourselves questions like: how will we get there? where will we stay? where will we visit? what should we see? and how can we fund our learning? As a team, we'll work on fundraising strategies and each student will take on the responsibility for funding their own share of the cost. This class will require an adventurous spirit, an inquiring mind, and a tenacious desire to persevere. Our travels will take place from approximately June 8 - June 17, 2020.

FANTASTIC BEAST (Linda) (5-8, 10+) *Art, Literacy, Social Studies*

Every culture has its mythological beasts. There are mountain and forest creatures such as fairies, pixies, elves, dwarves, unicorns and gnomes. Some creatures are living parts of nature like dryads, and nyads, ents, trolls. Others (mermaids, selkies, hippocampus, and sea serpents) dwell in the depths of the sea. Dragon-like creatures show up in Chinese, European and even South American stories and art. We will explore the stories, compare and contrast the variations, and create our own fantastic beasts.

A FARMER'S LIFE (Kara) (5-8) *Outdoor Education, Sustainability, Culture*

Description of this class is on it's way! Please check back soon.

THE FINAL DRAFT (Michelle) (11+) *Writing*

The Final Draft will take students through the writing process and give them a clear understanding of how to write a well-developed essay. Many of our students will have to write essays as part of high school, college, and university application and entrance requirements. This class will give students the opportunity to practice writing, in real-life situations, where they use their time wisely to brainstorm and tell a story that shows their personality or shares a personal story, using specific examples, strong vocabulary, correct grammar and spelling, and correct essay format. They will learn techniques and strategies to make their writing both clear and interesting to produce a final draft that will stand out to any high school or college/university admission's committee.

THE GAIA CONNECTION: A COOPERATIVE ART CLASS (Jean) (5+) *Art*

This class is a collection of various art projects that will be created as individuals for the collective. Individual pieces will join together to create one giant piece of awesomeness! All the art we create is for the good of the Earth, Space and all beings. We will also create an art piece that reminds us about the energy points in our bodies and how energy flows throughout. We may take a moment to create a furry plush and if time permits, we will create a giant collection of digital icons representing Earth, Space and Beings!

GEOLOGY ON MAIN STREET (Chie) (5-9) *Science, Geology*

Get to know your crystals, rocks and minerals! Crystals seem to be everywhere these days, from water bottles to jewelry. What properties are they made up from? Where are they coming from? Are they being taken sustainably? How do they get so shiny and pretty? Let's find out together with the study of petrology!

GEOMETRY (Semester 1 of 2) (Joe) (12+) *Math*

Now that we've learned a little algebra, we can begin exploring some of the other amazing things Math can do. In Geometry we'll learn about lines and shapes and angles and their properties and relationships. We'll discover conjectures and learn about logic and proof. Students will learn about angle measurements, properties of parallel lines, triangles, circles and other polygons. Students will learn about similarity and congruency. Students will gain experience in graphing and working with the coordinate plane. We'll practice thinking and figuring analytically and

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look for ways to tie words and numbers and shapes and symbols together to describe concepts that are otherwise difficult to imagine, discovering along the way the power and glimpsing the potential of symbolic language.

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Topics and concepts covered and additional resources are available at www.joesclasses.wordpress.com

GLICH HOUR (Ryan) (5+) *Independent Study*

This class will be focused on general independent learning. I will be ushering students through their independent curriculum designated by you, the parent. I will be supporting students in building strong independent work study habits. I will also be connecting with parents on a regular basis to report about progress and any needs for additional support.

Looking forward to a great semester of independent learning.

GOJU RYU KARATE (Sensei Mallica) (5+) *Physical Education*

Discipline, attentiveness, and fun are our goals! Your child will practice exercises that will develop physical strength, agility, and mental capacity – through running, jumping, and playing. Karate promotes healthy physical and mental activities for your child, and is fun because they are learning through play and discipline.

GRAPHIC NOVELS (Brittany) (10+) *Literacy*

For students who are interested in the combination of creative writing and visual art, this class will engage them in the process of brainstorming and creating their own graphic novel. A graphic novel is a book-length comic, or a story told with a combination of graphics (images) and writing. We will take a look at graphic novel material to discuss the dynamics of the genre, style, elements, and format. Students who have already taken a semester of graphic novel writing and want to continue their creations and advance their skills can also join the class.

HAPPY LITTLE TREES AND LANDSCAPES: BOB ROSS 2.0 AND 3D (Kimber) (6+) *Habitats, Art*

Happy Little Trees... Happy Little Clouds... Students in this lighthearted creative class will use Bob Ross, along with other contemporary artists, as an inspiration and jumping off point to create a wide variety of trees and landscape paintings and sculptures. Bob Ross, best known as the positive, soft spoken man who painted happy clouds, mountains and trees in the Joy of Painting program on PBS, strongly emphasized that there are no mistakes in art... only “happy little accidents”. Even today, his program is still the most recognized, most watched TV art show in history. Students will watch and experiment with Bob Ross’ unique style of oil painting and wet-on-wet techniques, listen to his encouragements and be reminded that “with enough practice anything is possible, it’s our world so we can sculpt anything we envision”. With the emphasis on the joy of process and going easy on themselves, students will also work on collage, clay, sculpture, acrylic paintings, and other multi-media projects, creating a forest of lovely creations!

HIKERS CLUB - ADVENTURERS (Nathan) (10+) *Geography, Physical Education, Social Emotional*

Thursday’s Hikers will be doing moderate to challenging hikes up and down the coast! Hiking safety starts with preparing for your journey. Students will have a packing list, route maps, and other tools and activities ready for their hike. We will navigate caves and climb mountains from the gentle slopes of Skull Rock to highest peak in Santa Monica Mountains at Sandstone Peak. Be prepared to see southern California like you’ve never seen it before!

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HIKERS CLUB - EXPLORERS (Kara) (6-9) *Physical Education, Ethnobotany*

Where are the best trails around Santa Monica? What natural resources can we use to make soap, or even rope? In Hiker's club we will hike some of the most beautiful trails in California as well as learn about the many different flora we come across. We will build endurance and body strength as we climb mountains and hike by the ocean!

I came across two talking stones while I was out hiking. One was big but shy. The other was a little boulder.

HISTORY DNA - ALLSTARS (Joe) (8+) *History*

History DNA is a game that gives students an opportunity to learn about fascinating and influential figures from the past. It's played with an ever-growing deck of cards. Each card depicts a significant person from history. The game involves quiz questions about the historical individuals, identifications of the people, and competitions between different people based on character traits.

THE HISTORY GAME: 19TH CENTURY (Joe) (8+) *History, General Knowledge*

The History Game gives students an opportunity to learn about important people, events and historical trends through gameplay. The game revolves around a collection of date/event memory cards - students can acquire cards by accurately connecting the date and event. Once a card is acquired, the student will have opportunities to score points by asking other students questions about the card's topic.

Each class session will begin with a brief mini-lesson or quiz, followed by a review of previous week's topics, and then we'll play the game. This semester we'll be looking at World History during the 19th century.

HISTORY OF ART IN NATURE (Linda) (7-10) *Art, Social Studies*

Nature has inspired artists throughout history and it reflects the ever evolving relationship between humankind and their environment. From ancient cave paintings to post modern abstractions, Mother Nature has been the most compelling muse to artists from all backgrounds. Influenced by the landscapes, plants, and animals represented by artists from various eras and cultures, Realm artists will create their own interpretations of our natural world.

HOGWARTS ACADEMY (Liz) (9+) *Literacy*

Come get sorted into a house and begin your magical journey into the world of Harry Potter. The main focus of the class will be on the first book but we will be exploring all aspects of the wizarding world. We will be practicing Latin to perfect our spells, cataloging magical creatures, learning to defend ourselves against the Dark Arts, and figure out how to play Quidditch. If you are ready for a magical journey this is the class for you.

HOP, SKIP, JUMP (Chie) (5-8) *Physical Education*

Description of this class is on it's way! Please check back soon.

HOW TO LIVE LIKE A JEDI (Jimmy) (5+) *Creative Play, Mindfulness*

Best class ever. This class features life lessons through creative free play with discipline. In a galaxy far, far away (but closer than you think) a group of children begin the journey from Youngling to Padawan to Jedi Knight at Dagobah West. In this continuing adventure we go deeper into the Jedi Code of even-mindedness, service, honesty, courage, peacekeeping, discipline, and feats of heroism. Students receive their own Jedi names and virtue -

Please review the Fall 2019 Class Schedule for age ranges of individual classes.

something they are good at but also have to work on - and learn Jedi Sitting Ready, Jedi Standing Ready, and Jedi Saber Ready. They go through trials designed to challenge and strengthen their inner resolve and allow them increased capacity to bring that resolve to the world. Through the creative free play and fluid story-line, students work with the dark and light within to become their best Self. Teamwork and calmness are accentuated on the Jedi Knight journey. May the Force be with you.

HUMAN ANATOMY (Linda) (8+) *Science*

The human body is a fantastic, intricate machine. Each cell works together with other cells to form tissues, and then, organs. Organs work in conjunction with other organs to form organ systems that integrate and work together to run a living organism. Beginning with the skeletal system and working our way out we will build models as we learn how each part contributes to the whole.

INDIA & SRI LANKA: GEOGRAPHY, CULTURE, & ART (Kimber) (5+) *Social Studies-World Cultures, Geography, History, Art*

Students will embark on an exciting adventure to the exotic lands of two similar, yet very distinct places, India and Sri Lanka, both known for its beauty, diverse people, fascinating history and rich culture. Through a plethora of fun, creative and hands-on projects, students will explore different aspects of culture and everyday life, including art, music, religion, food and politics. Students will travel, from the Himilayan snow-crowned peaks in the North, to Rajasthan with its forts, palaces and temples, and Agra with The Taj Mahal. They will discover distinct places, from rural villages and cities, to places like Calcutta with its colonial heritage, Bengali mansions and neo-Gothic architecture. From the coral reefs and coastal areas to the national parks and wildlife-rich habitats inland, students will also explore the amazing biodiverse regions that shelter wonderful animals like leopards, elephants and the Bengal tiger. Projects showcase a variety of traditional Indian and Sri Lankan crafts, holiday celebrations, cooking projects- and art projects including a parade of painted elephants, mandala art, Jaipur block print, mask, beads, batik, henna, and more.

INDIGENOUS PEOPLE OF THE WORLD (Kimber) (8+) *Social Studies-World Cultures, History, Art, Geography*

Students in this fun class will travel through a kaleidoscope of countries and be introduced to the fascinating history, culture and importance of many diverse indigenous, traditional and tribal peoples around the world. Through interesting visual presentations, discussions, hands-on “culture creations” and beautiful art projects, students will explore the daily life, beliefs, stories and traditions of many of these different groups. Students will also delve into current day issues and the social, economic, and cultural rights of indigenous peoples. From jungle to forest, island to mountain, town to city... there are over 370 million Indigenous people in the world, belonging to 5,000 different groups, in 90 countries worldwide. In a positive and powerful way, students will be challenged to think about... how do these unique indigenous peoples express their identities? How has this changed? What happens when two cultures come together? What are the consequences? Why are indigenous people often in political, socio-economic, and cultural jeopardy? What is the connection of indigenous cultures to where they live- and why is habitat conservation so crucial to the survival of these peoples? What can we do? Students will then, inspired by the vibrant cultures of traditional, tribal and first peoples, create a clay sculpture, symbol beads, body adornment-jewelry or mask, “Face and Place” map, folk art piece and paintings. In addition to these art projects from around the world, projects will also include a group research presentation and a variety of informative pieces that express need for appreciation, respect and preservation of indigenous, first and tribal peoples.

Please review the Fall 2019 Class Schedule for age ranges of individual classes.

JAM SESSIONS: A REALM ROCK BAND (Pete & Jessie) (8+) *Music*

Must have at least one year of musical instrument experience.

Description of this class is on it's way! Please check back soon.

JOURNEY THROUGH A BOOK: ROALD DAHL (Liz) (8-10) *Literacy (Fluent)*

One author can take us to land of giants, have us float down a chocolate river, and mix up a batch of marvelous medicine. This semester we will explore the books of Roald Dahl. Over the summer students will read the book *The BFG*. The first portion of the class will focus on comprehension of this story, its characters, and how to analyze works of literature. Then students will begin their own investigation into Roald Dahl's books. As individuals, students will work their way through Dahl's catalog as they learn to map out the story, create character profiles, and find the deeper (and oftentimes sillier) meaning in his work. The class will culminate with a final presentation in the form of song, poster, report, or dance on their favorite book.

JOURNEYS: RETHINKING THE FUTURE OF WASTE (Bonnie, Shirley & Vicky) (8-10) *Research, Community-building*

This semester the REALM will be cooperatively examining how we are living, the impact of our habits, our choices regarding our habits, and the outcomes that are associated with those choices. We will tackle this with three groups: Quest, Journeys, and Dreamers. Quest and Journeys will engage in outside and inside the REALM learning blocks. Dreamers will participate for an hour a week. The learning from all groups will be captured through art and research. This will evolve into an art installation which will find a home in places that can inspire curiosity and raise awareness.

Journeys will be examining how we live and how to deal with waste in the future.

Quest and Journeys have 4 components to their program: excursions and experiential learning (field trips, speakers, films, and hands on learning), guided individualized research pertaining to their topics, a cooperative informative art piece, and an opportunity to speak and educate others on the Future World at a culminating event.

JUNIOR TECH I: DIGITAL CITIZENSHIP AND ARTS IN TECH (Digital Dragon) (5-8) *Technology, Art*

Technology and the arts combine in this session! Students receive early exposure to the digital canvas--exploring storytelling, sound design, interactive media, and art--in order to learn to express themselves with today's emerging technological tools. Throughout, students will also be exercising basic computer and keyboarding skills, as well as completing lessons that will inform them on safe, kind, and mindful use of technology and the internet.

KIDS ON STAGE: "WILLY WONKA AND THE CHOCOLATE FACTORY" A MUSICAL (Kids on Stage) (8+) *Theater*

ENTER A WORLD OF PURE IMAGINATION... Act, sing, dance and let your inner actor come alive with this award-winning Kids On Stage performing arts program. Work with a theater professional and experience theater games, acting, singing and dancing all while learning to hit your mark. Classes foster teamwork, confidence and self-expression by tapping into each player's natural storytelling ability. Novice to advanced welcome. The session ends with an open class presentation of scenes and songs from *Willy Wonka and the Chocolate Factory*.

LA TRAPEZE SCHOOL (Trapeze School) (8+) *Physical Education, Movement*

Have your child learn high-flying skills as well as body control and body movement in this semester long circus experience at Trapeze School New York on the Santa Monica Pier. This workshop will end in a performance for

Please review the Fall 2019 Class Schedule for age ranges of individual classes.

friends and family on June 2nd. During the workshop your child will be working on Flying Trapeze Skills, Silks, Aerial Hoop, Tight Wire, as well as Juggling. The skills used in these activities will help to enhance self esteem, create good body image, and forge new and exciting physical possibilities!

LAB DABLERS: CREEPY CRITTERS (Nathan) (5-9) *Science*

In Lab Dabblers: Creepy Critters we will investigate different types of bugs, their habitats, classifications, body parts, and life cycles. We will use the scientific method, observation, and fieldwork to study and identify different bugs that live in and around us. From centipedes to cockroaches we will leave no stone unturned...literally.

LAND STEWARDS (Kara) (5-7) *Earth Science, Sustainability*

Why does the Earth need help from people? What can people do to create a smaller impact and help the planet? How can I help keep the earth in good shape? In Land Stewards, Students will learn the importance of being a great land steward based on the 7 Leave No Trace Principles. By the end of the class students will be Leave No Trace Certified and will be able to teach the principles to others!

Why are people always tired on Earth Day? Because they just finished a March!

LEADERS IN CONSERVATION (Liz) (9+) *Science, Writing*

The names Steve Irwin, Jane Goodall, and Theodore Roosevelt may be familiar to us but what about Rachel Carson, Patricia Wright, and Mardy Murie? These individuals are all known for the work they do in helping to conserve our environment. From creating sanctuaries, forming National Parks, or performing on television these people have taken their love of the natural world and turned it into action. Students will explore the lives of these and other everyday people who have stepped up to help the environment. Students will read their articles, watch their documentaries, and investigate how they are making the world a better place. As a final project students will select one conservation to study and present on in class.

LEGO ROBOTICS (Digital Dragon) (8+) *Technology, Engineering*

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.

LESSON PLANNING (Bonnie) (8-10) *Multi-Subject*

Do you love to orchestrate big things? Do you love to lead? Do you have tons of ideas in your head that you would like to see come true? Lesson planning is the class for you. In this active class, you will learn what it takes to be a teacher. There is a method to the madness. Students will have fun establishing a learning community, practicing classroom management strategies, engaging in group work, writing on the board, grading, and even presenting a clearly defined lesson from beginning, middle, to end. This is an excellent class to hone public speaking skills too.

A LIFE ILLUSTRATED (Tommy) (9+) *Art*

A Life Illustrated with Tommy creates opportunities for Artists of all ages to work in their own Journals and Sketchbooks to document their lives! In Life Illustrated we will look at our lives and the world we live in together. As an artist, I take my sketchbook wherever I go, my hope is that throughout our time together, students' pages will be filled with sketches, words and creativity that covers every page; what some would call a window into your own life,

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through your own artistic eye. Students will begin with a blank journal and will end with an illustrated version of life.

LIFE ON THE FARM (Nathan) (9+) *Outdoor Education, Sustainability, Culture*

When I grow up I want to be a farmer! One of the most underestimated and least understood career paths is also the number one most popular in the history of civilization. This semester we will don our overalls and set the rooster for the crack of dawn as we explore the lifestyle and responsibilities of farming. We will be composting, making organic-chemical free pesticides, and even planting our own crops! During the semester we will also be combining forces with Plumcot Farm in Malibu for a day at the farm event where kids will be able to get their hands dirty and do some real farm work with professionals who actually run a real farm!

LIFE'S BUILDING BLOCKS: CELLS (Linda) (8+) *Science*

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 plants and 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.

LITERACY DETECTIVES (Jessie) (6-8) *Literacy (Emergent/Transitional)*

What do great readers and writers do? We look for patterns and we crack codes! We hunt for clues and we make meaning! Across our two-day per week format, students will have the opportunity to grow their love of stories, engage with text as readers and writers, and explore the world of literacy with games, songs and crafty projects. Inquiry, observation and investigation will be our mission as we build print awareness and playfully demystify written language. It's elementary, my dear REALMers, when our strategy sleuths are on the case!

LOGIC PROBLEMS AND MATH PUZZLES (Ryan) (9+) *Math*

This class will focus on problems and puzzles to really get your minds going and thinking in many different ways. Each class will start off with a 5 minute teaser and then we will move into problems on worksheets or videos. There will even be times where we try to solve problems using physical objects. Logic is so important and can be used for so many things in your life and I love teaching it.

MARINE BIOLOGY: KELP FOREST (Linda) (5+) *Science*

There is a magical forest lurking just below the surface of our local coastline. The groves of waving giant kelp that provide shelter and food to a fascinating variety of animal life. We will explore this life from the lowliest polychete worm to the great white shark as we build a giant model of our own kelp forest and a handy field guide to share this knowledge with friends and family.

MATH MAVERICKS (Joe) (8-9) *Math*

In this class we will be hammering home all the basics: adding & subtracting, multiplying & dividing. We will kick it up a notch in each of the categories as the semester progresses to really make sure the students understand everything thoroughly from every direction. We will incorporate some daily real life examples from time to time so

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they can get ready for the future!

MATH STEAMROLLERS (Shirley) (5-6) *Math*

Come aboard! Come aboard to steamrollers express! We will be visiting the magical world of addition, subtraction, prediction, counting, and more. We'll be steamrolling through the different techniques you need to understand a problem and the best way to find the solution. Intuitive games and master thinking skills will be needed. Welcome aboard and I can't wait to see you in my class.

MEGA MATH BLASTERS (Michelle) (7-8) *Math*

Blast into math with this hands-on adventure that will take kids on a journey through the wonders of math. Students will learn how to tell time, count money, add and subtract with and without regrouping, use mental math to solve addition and subtraction operations, understand basic fractions and early multiplication, and understand and use math vocabulary to write number sentences to solve word problems.

MENTAL MATH 1 (Joe) (6-8) *Math*

Prerequisite = Some experience with counting, addition and subtraction

Adding, Subtracting, Doubling, Tripling, Quadrupling, and beginning Multiplication

This class focuses on developing our analytical thinking through mental computation and memorization. We'll focus primarily on arithmetical operations - striving to really get a grip on adding (one and two-digit), subtraction (one and two-digit), and beginning multiplication techniques. We'll practice holding numbers in our heads while we do two-step problems. We'll learn to parse problems and look for patterns to help us derive manageable methods of solution. Each class period will start with a warm up exercise presenting a new concept, application or technique and then we'll practice our skills through gameplay.

MENTAL MATH 2 (Joe) (8+) *Math, Problem Solving*

Prerequisite = Some experience with multiplication

Beginning to Intermediate Multiplication - plus division and advanced Addition and Subtraction.

This class focuses on developing our analytical thinking through mental computation and memorization. We'll focus primarily on arithmetical operations - building on skills developed in *Mental Math 1*. We'll learn methods, tactics, and techniques for multiplication, and also learn about Squares, Factors, Division, and Fractions. We'll practice holding numbers in our heads while we do two, three and four-step problems. We'll learn to parse problems and look for patterns to help us derive algorithmic methods of solution. Each class period will start with a warm up exercise presenting a new concept, application or technique and then we'll practice our skills through gameplay.

MENTAL MATH 3 (Joe) (10+) *Math, Problem Solving*

Prerequisite = Multiplication memorized up to 12x12

Intermediate to Advanced (2-digit by 2-digit and beyond) Multiplication - plus division with fractional and decimal remainders and advanced Addition and Subtraction.

Please review the Fall 2019 Class Schedule for age ranges of individual classes.

This one's for the all-stars. Students who have been developing their mental math skills for awhile will further develop their abilities in two and three-digit multiplication and division. We'll also be working with fractions and percentages, and how to develop shortcuts and tricks of our own. We'll practice squaring numbers up to 100, and see if we can find ways to derive square roots. Each week we'll look for patterns and relationships within number sequences, and consider what insights those patterns can offer. We'll explore a variety of calculation and memorization techniques.

MINDFULNESS AND MEDITATION (Jimmy) (5-9) *Mindfulness, Social-Emotional*

Studies from UCLA to Harvard show the myriad of ways Mindfulness and Meditation benefit human beings. Let's let go of the studies and find out for ourselves if it works - let's practice! Students will get in touch with their relationship to themselves, the world, and others by practicing Mindfulness and Meditation. We practice consciously, intentionally getting in touch with - and letting go of - the body, the senses, and the mind. We meditate in silence, if even for a short time, and we do guided meditations, most facilitated by Jimmy and some by the students themselves! Class also includes: Zen shorts, social-emotional trouble-shooting, "council", situational ethics, positive self-talk, PBS (Pause, Breathe, Smile), and practicing presence and observation.

MIX YOUR MEDIA (Tommy) (5+) *Art*

From pencil, crayons, colored pencils, chalk, paints, charcoal, clay, markers, sand and more. Together we will not just experiment with different mediums, but create wonderful works of art. Texture and combining different mediums is one of my favorite ways to show my art. Not just seeing the art but being able to feel and see the many layers, using and mixing many different mediums. In this class, students will find their style and their way of communicating through multiple mediums. As I say in all of my classes, "this is not my class, this is OUR class. Lets go make art, lets go make a memory."

MULTIPLICATION MASTERS (Joe) (8+) *Math*

There is simply no more important arithmetic skill for students to master than multiplication. Students who master multiplication thoroughly before moving forward into more advanced areas perform better and with greater confidence - and most importantly, they have fun doing math. Most students who struggle with fractions, decimals and algebra don't really struggle because they have trouble with the new concepts, they struggle because their poorly developed multiplication skills slow them down and preoccupy them so they can't focus on the new ideas and skills being presented to them.

This class will focus on all aspects of elementary multiplication: Memorizing multiplication to 12x12 - and doing speed drills. Using the vertical multiplication method to multiply multi-digit numbers. Using the distribution method to understand how multiplication works. Looking at alternative methods for pencil and paper calculations. And lots and lots of practice. This might be the most important math class your student ever takes!

NOVEL TEA: A CHARACTER STUDY OF TO KILL A MOCKINGBIRD (Liz) (11+) *Literacy (Fluent), History*

"You never really understand a person until you consider things from his point of view ... Until you climb inside of his skin and walk around in it." This quote from Harper Lee's *To Kill A Mockingbird* perfectly sums up the idea of empathy that resonates throughout the book. In this class we will be reading the book and looking at the many lessons it has to teach us. Students will examine the historical time that book is set as well as the historical time that

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lead to its creation. By close reading, character analysis, personal journaling, and group discussion students will come away with a deeper understanding of the book and the lessons it is still imparting to us.

NUMBER THEORY (Joe) (11+) *Math*

In Introduction to Number Theory, students at the Algebra level and above, who are interested in exercising and extending their mathematical understanding, will have a chance to tackle some challenging problems and concepts that will broaden their comprehension of numbers - the essential language of math. Students will explore numbers and how they work, relate and connect to each other and to a variety of fascinating mathematical concepts. Topics will include, number types, non-base 10 systems, exponents and logarithms, functions, operations and relations, sequences and series, counting and combinatorics, and sets.

OLOGIES: EXPLORATORY PODCASTS (Liz) (9+) *Science, Writing*

Paleontology, Ornithology, and Gelotology. There is an ology for just about anything you can think of. Everyday people are getting curious and getting passionate about the things they love and turning that passion and curiosity into learning. In this class we will listen to podcast with scientists who found their passion, be it birds, volcanoes or laughter and went for it. Classes will be filled with exploring the world to find out passions, learning about different ologies, and creating journals to store all our new information. In the end each student will choose their own ology to dig deep into, even if it means creating a whole new ology.

ONE BLANK CANVAS (Tommy) (5-8) *Art*

When you decide you would like to paint, you may encounter the thought that it takes talent. Don't believe it. The desire to learn to paint combined with enthusiasm are what you need more than anything else. You can even learn to paint without being able to draw realistically. But knowing how to sketch and draw certainly doesn't hurt. Throughout this class we will experiment with tints, tones, shades, basic color mixing, texture. WE will visualize our ideas on canvas and we will get to work! You don't have to be a brilliant sketcher, or have years of drawing classes to start. All you really need are some supplies, imagination, be willing to have fun, make a mess, don't worry about drips and spills. Just go with your feelings and express who you are or what you love on paper or canvas.

Come and stretch your imagination while we transform one blank canvas.

OPERATIONS! DISSECTING MATH (Nathan) (5-8) *Math*

This class will be solely focused on mastering the basic operations: addition, subtraction, multiplication, and division. We will be practicing our math at each individual student's skill level with the goal of gaining a mastery of each by semester's end.

OPINION WRITING (Bonnie) (8-10) *English*

Opinions- Oh, how kids have them. Time to learn how to articulately them strongly In essay format. This class reviews the basic structure of opinion essays and kids learn to churn them out like old fashioned ice cream. We will get into more challenging topics as the class progresses. Students will have routine opportunities to share their essays in a public forum. Expect high standards for work ethic and regular relevant homework.

PHUN WITH FYSICS (Brian) (11+) *Science, Physics*

Please review the Fall 2019 Class Schedule for age ranges of individual classes.

In this class, students will get to explore roller coasters, rockets, sound waves, flight and much more by getting their hands dirty in various laboratories. By the end of the class, students will get to design their own lab for other students to try!

POETIC NOMADS (Brittany) (11+) *Literacy*

Poetry is a meaningful way to explore ideas and perceptions about life and the world. In this class students will write their own poems with the opportunity to engage in various poetry prompts, styles, and formats. We will use "Awakening the Heart: Exploring Poetry In Elementary and Middle School" as a guide, which explores how to cultivate the poet in students through examples and inquiry based exercises.

PRE-ALGEBRA (Semester 1 of 2) (Ryan) (10+) *Math*

In Pre-Algebra, students will develop an understanding of more advanced arithmetical operations. Students will learn how to work with fractions, decimals, and percentages. New topics will be introduced each week and will be supplemented and reinforced through hands-on exercises including games!

Other concepts taught in this class include: exponents and roots, factorization, primes, divisors, variables, negative numbers, equations, inequalities, ratios and proportions, unit conversions, and basic geometry (angles, perimeter, area, triangles, and quadrilaterals).

QUEST: RETHINKING THE FUTURE OF ALL THINGS LIVING (Nathan, Brittany & Vicky) (11+)

Research, Community-building, Literacy

This semester the REALM will be cooperatively examining how we are living, the impact of our habits, our choices regarding our habits, and the outcomes that are associated with those choices. We will tackle this with three groups: Quest, Journeys, and Dreamers. Quest and Journeys will engage in outside and inside the REALM learning blocks. Dreamers will participate for an hour a week. The learning from all groups will be captured through art and research. This will evolve into an art installation which will find a home in places that can inspire curiosity and raise awareness.

Quest will be diving into understanding how the way we live impacts all living things.

Quest and Journeys have 4 components to their program: excursions and experiential learning (field trips, speakers, films, and hands on learning), guided individualized research pertaining to their topics, a cooperative informative art piece, and an opportunity to speak and educate others on the Future World at a culminating event.

READ! WRITE! THINK! (Jessie) (8-9) *Literacy (Transitional/Independent)*

Read, Write, Think! is a class designed to support fairly confident readers to become deep thinkers about what they are reading! They will learn to respond to great books (both through read alouds and independent reading time) in fun, creative, and meaningful ways!

Every reader in this class will create a Reading Response Journal that will be our road map for learning how to process literature through a variation of strategies and skills, such as: making connections, asking questions, making predictions, writing a summary/response, making inferences, visualization. We will also dive into the art of retelling and responding through story elements and understanding the author's point of view. Kids will be given a tote bag

Please review the Fall 2019 Class Schedule for age ranges of individual classes.

to carry their journals and books home between classes so that we can share this journey together! This class is where readers become READERS! The goal is for kids to become readers that fall in love with books, that always have a book in their backpack, that find favorite authors, and that always Read, Write, AND Think!!

REAL WORLD MATH: RATES, RATIOS AND PROPORTIONS (Ryan) (10+) *Math*

Real world math will be taking a close look at percentages, what they are and how to utilize them for your benefit. We will also be taking a close look at unit rate, being able to figure out the best option when you are comparing two products or services and trying to figure out the option that will cost you the least. We will dive deep into tax & tip percentage, percentage increase & decrease. This class will have a lot of hand writing equations to solve and word problems.

Pre-req: You must have an excellent understanding of multiplication, division, and fractions and you are in Pre-Algebra, Algebra 1, or Geometry.

REDISCOVER: CREATURE CREATIONS (reDiscover & Kara) (6-9)

Science, Engineering, Creativity, Sustainability, Carpentry

Creature Creations Explore the details of living creatures by building them! In this class we will be traveling to reDiscover Center to develop creativity through hands-on making with sustainable materials. With the help of reDiscover and REALM teachers, the students will research and build models of animals, and create habitats for them to live in. Students over the age of 7 will learn to safely use power tools, design, and build their own creations. reDiscover curates upcycled materials reclaimed from the waste stream for innovative programs combining art, science, and engineering. Their Tinkering programs give children the tools and materials they need to build, the freedom to fail, and the time to pick themselves back up. Its instructors are passionate tinkerers themselves. They teach children how to use tools, work individually and as a team, and translate their imaginations into physical objects.

REDISCOVER: LIVING ON MARS (reDiscover & Kara) (10+) *Science, Engineering, Creativity, Sustainability, Carpentry*

What do we need to live on Earth and how can we make sure we have it on Mars? In this class, we will be traveling to reDiscover Center to learn to safely use power tools, design, and build our own creations. We will discuss aspects of life on Earth, and design a model of a Mars base that could support a colony of settlers living there, using wood and other sustainable materials. reDiscover curates upcycled materials reclaimed from the waste stream for innovative programs combining art, science, and engineering. Their Tinkering programs give children the tools and materials they need to build, the freedom to fail, and the time to pick themselves back up. It's instructors are passionate tinkerers themselves. They teach children how to use tools, work individually and as a team, and translate their imaginations into physical objects.

ROCK CLIMBING (Kara) (6+) *Physical Education*

Want a fun way to exercise and get a strong, healthy body? Students will travel to Sender One for weekly climbing lessons and time to free climb with certified instructors from Sender One and The Realm. Students will learn the proper belay, climb, and rappelling techniques to become a great rock climber. Students will have access to bouldering walls, auto belays, and top rope climbs with a trained belayer. Keep calm and climb on!

Please review the Fall 2019 Class Schedule for age ranges of individual classes.

ROWING (Nathan & RowLA) (11+) *Rowing*

This class requires that the student have a USRowing membership.

The rowing classes through RowLA will introduce students to the sport of rowing in Marina del Rey. Students will learn proper rowing technique using the ergs (rowing machines) and will practice on land using plastic boats and oars. Student will then learn to row in small boats (singles and doubles) on the water, as well as learn how to handle all of the equipment (boats, oars, etc.). The classes will be taught by the RowLA Head Coach, Henrique "Hicu" Motta, and another coach, Manu Abreu. Both are elite rowers who rowed for the Brazilian national team and have many years of coaching experience with children and adolescents. Any child who does not know how to swim will be required to wear a life jacket while on the water at all times. This is a great opportunity for students to row in a small class with expert instruction.

SCIENCE OF THE EARTH (Nathan) (5-7) *Science*

This is an Earth Science class that will focus on important features of the earth's surface, plate tectonics, earthquakes and volcanoes, and weather. Students will begin to understand how the Earth formed and what processes are at work today shifting and changing its physical appearance. Our class will be using science experiments, art projects, research, and fieldwork to dive into the Earth and unlock some of the mysteries that shape our planet everyday.

SIGN LANGUAGE (Erica) (10+) *Sign Language*

This is an introductory course to American Sign Language (ASL)! Students will get the opportunity to learn a variety of everyday signs. We will explore who uses ASL and some of the aspects surrounding the culture of the Deaf Community. Students will be able to work together in pairs and groups emphasizing non-verbal communication and improving the fluidity of their signing in a fun and engaging way over the course of the semester!

SKELETONS AND FOSSILS (Linda) (7-10) *Science*

Paleontologists are detectives that use the myriad of clues that bones reveal to understand, not only how a creature may have looked, but also how and when it lived. In this class students will learn to read the clues. They will examine the human skeleton, compare it to other vertebrate skeletons, discover types of fossils and how they are formed, and, using this information, decipher the information they hold.

SPORTS CLUB (Jimmy) (5-7) *Physical Education, Social-Emotional*

Welcome to REALM Sports Club! Time to get some exercise and have a field day! Teamwork and Sportsmanship are the themes from which we never waver. Class-flow includes stretching, some jumping jacks and a short run, some fundamentals, and then - usually everyone's favorite - a scrimmage! Soccer, One-hand touch Football, Wiffle Ball, and Basketball are our main sports with the occasional Obstacle Course. Athletics and Social-Emotional meet here at Realm Sports Club. We also study talk about our favorite sports team and how they are currently faring. Life lessons galore inform our discussion and our play. In Spring we made it to see The LA Galaxy Play, this Fall look for another trip to see a game for a pro LA sports team.

STAINED GLASS AND MOSAICS (Kimber) (8+) *Art History, Art*

Students in this unique class will be introduced to the wonderful world of stained glass and mosaic art. Students will explore the history and evolution of these exciting art forms, both of which show their beautiful pictures and patterns through the strategic placement of colored pieces. Students will experiment with design and placement as

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they create colorful transparent, glass and tile projects in exciting new ways. Students will learn about safety, how to use a variety of tools, how to use copper foil— and how to work with different types of glass, tile, and other mosaic materials, like ceramics, porcelain, mirrors or shells, even beads and bits of plastic and metal. Students will also explore other gorgeous forms of glass art including melting glass-suncatchers fusing and slumping. After our initial ceremonial plate breaking, students will then create a variety of pieces including garden art, mosaic portraits, dragonfly and butterfly suncatchers, a large collaborative piece, pendants, mobile pieces- and beautiful hanging glass art with mixed media. *Please note that students are asked to wear closed toe shoes for this class, no sandals/bare feet.

SUBVERSIVE CURSIVE (Jean) (9+) *Art, Cursive*

No one teaches cursive writing anymore...but everyone still needs to be able to sign their name. In this class we will learn the art of cursive writing and take breaks to create some cool art with the letters we learn!

TALENT SHOW (Chie) (5+) *Performance*

Do you have some hidden talents that you want to share? Can you secretly sing all the capitals of the United States in one breath? Well then Talent Show is the class for you! We will be practicing, creating, and designing our own talent show(s) to perform. All shows will be planned by the students, and hopefully, we will discover all the various talents our REALMers have!

THINGS WITH WINGS (Kimber) (9+) *Science, Habitats, Art*

Birds, Bees And Bats! In this exciting class, students will explore the magical world of creatures with wings. What would it be like to soar through the sky like an eagle or swoop down into the rivers like a dragonfly? What is happening to these flying marvels as the world's landscapes are changing? From backyards to forests, grasslands to seashores, students will go on an adventure and explore the fascinating world of birds, insects and other winged wonders. Interesting research and stories, fun activities, creative crafts and cool art projects will spark the imagination and feed the curious mind. How will these students explore entomology or express their avian iconography? Hands-on projects include gorgeous bird feeders and homes for our feathered friends, bee safety project, beak masks, butterfly hatching, insect mobiles, 3-D sculptures, illustrations, paintings and other multi-media projects. Time to fly into a unique learning experience!

THINK TANK (Joe & Liz) (10+) *Research, Communication, Literacy, Info-synthesis*

The REALM Think Tank is an experience in self-guided learning - it is an environment that guides each student in discovering his or her ability to learn. The Think Tank guides students along the learning and creative process from the posing of an initial question, through research and discovery, to the creation of a completed product demonstrating and sharing their accomplishments and new understanding.

This process gives students the experience of learning a self-chosen topic or skill, and an awareness of their ability to take control of their own education. We will raise questions like: What is learning? How do I learn? What do I want to learn? Are different ways of learning better for different subjects? What can I accomplish with the new knowledge I've found?

More advanced students will begin exploring the distinction between learning information and learning concepts. We will begin actively building a foundation of knowledge and comprehension to help expand our overall

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understanding of ourselves and our potentials. Students will begin focusing on synthesis and connection - asking questions like, how do the things we know connect and inform other things we know and new things we learn/discover?

THIS LAND IS YOUR LAND (Nathan) (8-10) *History, Geography*

This is a US geography and history course that will be creating a giant color coded US map with both geographical locations like states, capitals, major rivers, lakes, mountain ranges, etc. and historical places and data. Students will be researching historical people and places, using maps, globes, and atlas, and transferring what they learn onto a giant map making project will blow your mind!!

TOOL BUILDERS: GAMES IN SITUATIONAL ETHICS (Jimmy) (6-10) *Social-Emotional, Mindfulness, Philosophy*

This is the class where essential questions meet practical everyday life. What is the 'right' thing to do? Is it always the right thing to do? Do actions need supporting reasons? How aware are we of our reasoning or lack thereof? Can we place the needs of the group before our own needs? What is the proper way to greet someone? How can I identify what is and is not working in my life? What is my relationship to the Earth, to the city, to my family, to my friends, to myself? How does my perception inform my happiness index? Is it better to be right or to be happy? We will explore these questions and more. We will explore embodying the up-stander. We will study how thinking leads to words leads to actions. We will mindfully investigate belief systems. The students will be armed with practical tools for dealing with any and all slings and arrows, the potential pitfalls of materialism and success, and conflict. Tools such as PBS (Pause, Breathe, Smile), Inventory-work, Non-Violent Communication, how to engage and respect friends, how to engage and respect people in a business setting, how to deal with someone unruly or an accident, how to integrate wisdom, how to clear your mind, how to deal with adversity, make up this class. And, perhaps most importantly, we will have fun while we are at it.

UKULELE (Shirley) (6-9) *Music*

A Ukulele is required for this class.

Do you want to play a string instrument? The Ukulele is great for little hands which makes it the perfect first instrument to learn. With just four strings the possibilities are endless for the wonderful music your kids can create. We will learn different chords, songs, strumming patterns, basic music theory, tuning, and note values. You will have to buy a soprano ukulele so we can all enjoy the class together. Can't wait to see you!

VIRTUAL ROCKET SCIENCE (Digital Dragon) (10+) *Technology, Engineering, History*

Come learn to build virtual rockets and put satellites in simulated orbit. Students will be using Kerbal Space Program, a space flight simulator where players control an aerospace program and build and fly spacecraft in a realistic physics simulation. Learn to build virtual multiple stage rockets, lunar landers, satellites, and wrangle gravity, orbital mechanics, and the laws of physics themselves in this exciting and inspiring course. Students master real-world physics and engineering skills as their understanding of STEM concepts blast off!

WHERE IN THE WORLD? (Nathan) (8+) *Geography*

This world geography class will help beginning geographers start to understand how to read and explore maps and globes. Students will explore hemispheres, be able to identify continents and oceans, use map keys, and locate special and important places around the world!

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WOODWORKING & CONSTRUCTION (Sylvia) (5-10) *Woodworking, Crafts*

Children learn the basics of woodworking! The combination of woodworking and art encourages concentration, problem-solving skills, fine motor coordination and stimulates creativity. The kids experience the joy of creative expression, become creative thinkers and develop confidence with these hands-on experiences. Give them the opportunity to explore something new in their lives.

WORDS (Joe) (8-10) *Spelling, Vocabulary*

What are words? Where do they come from? Who makes them up? How many do you know? How many do you need to know? How do you spell them? Why do you spell them like that? And does it matter how you spell them?

In Words we'll ask questions like these, as we get to know about words. We'll learn about words as things, we'll learn about language, and we'll learn about vocabulary and spelling and word origins and the development of language. Each week we'll learn about a new word, and a new spelling rule or convention. We'll practice it through exercises and game play. This class will center around a spelling game that involves letters and letter groups and fun - it involves using letters and common groups of letters to make words, phrases and sentences of growing length and complexity.

WORK STUDY HOUR (Kimber or Shirley) (5+) *Independent Study*

Description of this class is on it's way! Please check back soon.

WORLD VISIONS THROUGH ART (Jean) (10+) *Art, Meditation, Mindfulness*

In this class I will be leading short guided meditation journeys. A moment to take a breath, focus inside and set ourselves up for the week ahead! We will keep journals and record our progress and produce art based on these journeys. We will also learn to create our own individualized and personalised meditations. These self-created journeys can help enhance mental, emotional, physical well being and help kids get to know themselves better. We will write pieces to help the earth, travel through space and send some good out to all living things!

WORLD WARRIORS (Kimber) (5-10) *Multi-Subjects, Activism, Self-Expression, Art*

World Warriors in this special class will use all forms of communication, art and creative expressions as powerful tools to be the voice of the planet— the earth and all of its wildlife, animals and people. Students will be given a unique opportunity to explore their curiosity delve into what's going on around the world and then discover a topic that's near to their hearts. Whether it's about an environmental issue, an endangered animal or a person's human rights, students will choose, research and create their very own passion projects. Armed with information and the power of optimism and youth, they will find a way to express, inform, educate, raise funds and cause change. Students will be encouraged to take risks and really think outside the box — Sky's the limit, or is it really? Student's in this process will also learn the valuable steps of creating goals, breaking down projects and coming up with workable plans. In addition to individual passions, students will also mesh their ideas and create long-term collaborative projects. Whether it's through self-directed video, visual presentation, rap, poem or art piece, students will be empowered to connect with their ideas and make a difference!

WOVEN WORDS: AUTHORS AS MENTORS (Jessie) (5-6) *Literacy, Early/Emergent*

Everything in our world- from Earth to space and all the living creatures and small moments in between- is worth writing about. To find these moments we will Authors as Mentors as we become detectives of our world! In our very

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own writers' workshop, students will go from mark making to storytelling as they learn to think like authors who see a world filled with writing opportunities. Our youngest writers will explore the writing process: gathering ideas from our lives, getting our thoughts on the page, stretching our stories long and strong, making our writing readable and sharing our stories with the world. Word study sessions will encourage writers to use their brave spelling as we gain a command of sound patterns and sight words. REALM's newest authors will grow our library while exploring the glorious connection between reading, writing and communicating.

YOUNG ENTREPRENEURS: LEVERAGING TECH TOOLS (Digital Dragon) (8+) *Technology*

Students begin by learning about organizations and companies, how those companies built their product and their brand, and how they market themselves. Following these examples, they develop their own business idea; a lemonade stand, selling friendship bracelets, or a dog-walking business, for example. Students then put together a mission statement and a business plan. Finally, students learn how to use digital editing software programs to create a logo, explore the concept of branding and use other digital tools to develop their first business!

YOUNG ZOOLOGISTS (Linda) (5-7) *Science, Literacy, Art*

This class incorporates writing, research, science and art all in the pursuit of a deeper understanding about the Animal Kingdom. The students will write and illustrate their own picture book based on fun facts they have researched about an animal. They will conduct science experiments based on animal adaptations as well as learn the process by how these changes evolve. Then they will create works of art that reflect the defining properties of the main groups of vertebrate animals in all their slimy, scaly, feathery, and fuzzy glory (as well as take a quick peek into the creepy crawly world of invertebrates.)