

Please review the Spring 2020 Class Schedule for age ranges of individual classes.

3-D ART (Linda) (5+) *Art*

This is a sculpture class using unusual materials as our media. We have all new projects this semester. The focus is on exploration, personal expression, and experimentation.

3D GAME DESIGN W/ UNITY (Digital Dragon) (11+) *Technology*

This course is designed for avid gamers and aspiring technical artists who want to learn how their favorite games are made. The best way to do that? Create your own! You will be introduced to the fundamentals of game design by creating a basic playable game. Become an environmental designer and master with Unity 3D's terrain editor to invent your own worlds and dive into object oriented programming with C# by creating interactive game objects.

A-Z SOCCER (Manuel) (9+) *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 (Josh) (9+) *Strategy & Games*

Played by everyone from nobility to peasants for over a thousand years, chess is a game of strategy with a fascinating history. In this class, students will hone in on the more advanced nuances of the game. We'll examine various opening strategies, as well as powerful end game moves. We'll study board control and piece management. Chess is a game with many layers and endless ways to improve, always giving us something to work on while having a lot of fun!

ALGEBRA (Semester 2 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:

- 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

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ANCIENT GREECE: ART, CULTURE AND SOCIETY (Linda) (8-10) *History, Social Studies, Art*

Ancient Greece was the birthplace of western society and dominated much of the Mediterranean thousands of years ago.. Art, culture, philosophy, medicine and science were all tangled up in religion. Finances and birthplace determined status in a highly structured civilization. How then was their daily life different from ours and how does it continue to influence our culture, government, philosophy, science, mathematics, art, literature and sports today? Who were the Gods that greatly affected every minute of their day with a very hands on approach? In this class students will create their own comic books of classic stories from Homer's *The Odyssey*, invent their own pantheon of gods, try their hand at a mini Olympics, be introduced to such great thinkers as Aristotle, Socrates, and Plato and have their own philosophical debate about *The Allegory of the Cave*. They will examine the Greek Empire's struggle to keep control of its lands in the Persian Wars and the wars between Sparta and Athens, the Peloponnesian War. We look at Alexander the Great and his military expansion of the Empire. We will write using the Greek alphabet, create a mini Greek theatre, and design a Greek ceramic pot as well as many other hands on projects to experience life in ancient Greece.

ART HISTORY (Kimber) (5-9) *Art, Art History*

Young artists will explore their creative sides inspired by artists throughout history . We will discuss how certain works of art make us feel and why. What is art? What makes a piece of art "good"? How does when and where you live affect these answers?

ART HISTORY: THE PORTRAIT (Linda) (8+) *Art, History*

The selfie isn't new. Artists have been painting, sculpting, and drawing themselves long before the camera came along. We will take a look at how different artists have expressed their vision of the human form realistically and expressionistically. The best portraits display the likeness, personality, and even the mood of the person. We'll take a look at how cultural values affect artistic movements from realism, stylized, expressionism, impressionism, and abstraction. Inspired by the historical greats we'll be creating our own masterpieces reflecting our inner and outer selves onto the canvas.

ART OF BIOLOGY: GEOMETRY AND PATTERNS IN NATURE (Tara) (8+) *Art, Science*

In this class we will explore how to use illustrations to make detailed scientific observation. We will look at original drawings of scientists of the past such as Carl Linnaeus and Charles Darwin. We will also study the fascinating patterns of the natural world; nature's geometry. Students will draw specimens from the microscope as well as in the field as we explore the natural world.

ART + SCIENCE FUSION (Golden Art Studios, Rayanne) (5-7) *Art, Science*

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

AUTHORS AS MENTORS (Jessie) (6-8) *Literacy*

Mo Willams, Peter Brown, Cythia Rylant and many more outstanding Authors will lead us on a literary adventure this semester! Throughout this class, we will be inspired by various literary techniques such as speech bubbles, descriptive language, diary-style writing, poetic forms and more. Each class, students will hear, analyze and discuss my favorite books and then students will put their writing skills to work as they try their hand at writing stories in these diverse styles. As we work, students will be gently coached in making their writing easier to read through

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following grammatical conventions such as punctuation, capitalization, word family spelling patterns, and more! This class will inspire young writers to reach for the stars as we learn from literary supernovas !

BEGINNERS FENCING, EN-GARDE! (BHFencing & Kara) (7+) *Physical Education, Sport*

Get in touch with your inner Musketeer! Fencing has a rich connection to history, conjuring images of swashbucklers, pirates, and heroes of honor, as well as being one of the first sports for women in the Olympics. Fencing enhances not only physical and technical skills, but encourages quick thinking, creative problem solving, and concentration. We provide all necessary equipment in a safe and healthy environment where skills are developed through warm-ups, games, drills, challenges and mini-tournaments. We develop the individual fencer as well as foster teamwork and esprit-de-corps.

Fencers will need to wear a short-sleeve tee-shirt, long pants, and sport shoes, a water bottle is always a good idea. The children be learning to fence on the same type of fencing equipment that is used in the Olympic games! All equipment will be provided for the classes.

En-garde!

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

We're taking over REALM's main floor with the mission to get strong and endure. Loud music paired with a steady sweat. Exercisers will power through 50 minute full body workouts and learn how to move safely and efficiently. Pride a promised result.

BOOK EXPLORERS: THE TWENTY-ONE BALLOONS (Liz) (8-10) *Literacy, History*

How does a man take off from San Francisco in one hot balloon end up a month later in the Atlantic Ocean with 21 balloons? As Book Explorers will explore the real life historical events that inspired this fantastical novel. We will sail around the world with Professor William Waterman Sherman and map his journey, learn how hot air balloons work, and learn about the eruption on Krakatoa.

BUILDER'S PARADISE (Chie) (5-9) *Math, Science, Art*

This is a project-based class, where sometimes 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. Other times they are given longer challenges that also incorporate art. Students will explore the types of forces at work with each type of structure, which shapes are the most stable and the strongest, and the properties of different types of materials to choose from. 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. We will discover important buildings that helped shape history and the architects that designed them, look at types of structures around the world, and create blue-prints of our own dream house.

BUILDING MUSCLES: SWINGS AND RINGS (Kara) (5+)

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

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

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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.

CAREERS AROUND US (Nathan) (6-10)

I remember being a kid and riding in my parent's car, completely oblivious to how I was getting somewhere, which roads we turned down, and what each building we past meant, did, or contributed to our community. When I saw a bowling alley, I thought of myself bowling, I didn't think about who worked there, how it was built, or who owned it. When I drove 1500 miles from Michigan to my grandparent's home in Florida, I never once thought, who made these roads? And, least of all, did I ever consider that I could have been the one to do these things. I still don't, but it's not too late for your children ;-)

We will visit the people that make the city, from the history of Santa Monica Museum to the City Planning Department at City Hall, we will visit and interview key figures in the building and maintenance of this community. Our investigations and imaginations will lead us into our semester's super project: choosing a career that we find around us and then using our passion and knowledge to create our own career based project and presentation for the open house.

CELEBRATIONS AND GAMES AROUND THE WORLD (Kimber) (5+) *Game Play and Strategy, Social Studies*

Join us on an epic trip around the world as we explore wonderful celebrations, festivals and games of different people, cultures, and countries. In this exciting class, students will discover the pure fun and extraordinary variety of ways people come together for different holidays, celebrate- and play. Students will learn how to play many of the fun games that friends and families traditionally play and discover why these games have "stood the test of time". Some games, like Checkers, Chess, Backgammon and Mancala have even been played for over 1500 years. Focusing primarily on playing grid and board games that require strategy and forward thinking, students will learn the rules, and then practice fair game play, strategy, "cause and effect", diplomacy and critical thinking. Is it luck, knowledge, strategy or skill that make a game enjoyable and rewarding? What role does playing games have on certain holidays? How are games like Alquerque, Pente and Go similar? What does it mean to "squaffle"? How do you play Len Choa from Thailand or Mu Torere from New Zealand? And what on earth is a Grognard? Using all of their play practice, discoveries and "universal game appeal", students will then create, play and test their very own board games. Come celebrate with us as we explore the world and the many differences and, more importantly, the similarities, in the ways different cultures gather together and play! Let the games begin!

CHANGE MAKERS (Brittany) (10+) *Literacy, Art, Social Studies*

Do you dream of changing the world? Do you have a vision for making the world a better place? This class will allow students to put their inner activist in motion by engaging in an exploration of ideas, problems and solutions. We will learn about influential changemakers—of diverse backgrounds and ages— such as Ghandi, Cesar Chavez, Rosa Parks, and Greta Thunberg. And students will focus on a project of their own geared towards creating change.

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

REALM's Running Club is in its 6th season. Runners alternate between hill, sand, distance, and city running workouts. We strive to keep putting one foot in front of the other, while lifting our teammates' spirits. Runners commit to meeting the tough head-on and doing their very best during each and every workout.

CITIZEN SCIENCE: PARTNERING WITH THE NATURAL HISTORY MUSEUM (Michelle) (8+) *Science*

As student scientists, we will participate in a community science project with the Natural History Museum! Using the

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iNaturalist app students will document the wildlife of Los Angeles as we explore neighborhoods, local parks and the beach. We can participate in many different projects based on student interests. More info at:

<https://nhm.org/community-science-nhm>

CITY SCAVENGER HUNT (Kara & Chie) (5-9) *Physical Education, Problem Solving, Orienteering*

In City Scavenger Hunt, we will explore all the hidden treasures of Santa Monica such as historic buildings or famous ZXCFCR15parks, as well as find the super hidden treasures called Geocaches. Students will decipher clues, practice orienteering, read maps, and work together to solve the daily scavenger hunt. I love my map. I'd be lost without it.

CIVIL RIGHTS TODAY (Kimber) (10+) *History, Current Events*

Students in this thought-provoking class will explore the rich history of civil rights movements, past and present, through engaging presentations, games, fun projects and group discussions. Students will learn about the adventures of the brave men and women who have led the fight for their own rights, as well as those of others. Starting with the fascinating stories and significant events of The American Civil Rights Movement of the 1950s and 1960s, students will ponder powerful questions like... what was this movement and why is it considered to be one of the most powerful changes in America? Students will also be introduced to other equal rights movements that have occurred throughout history, like women's rights, and discover how today, the successes of many of these past movements continue to inspire other groups in their quest for fair treatment. Students will also examine current events and delve into movements today about poverty, jobs, education, voting rights, health and racial tensions. Through creative projects, students will not only learn about the struggle for civil rights, past and present, and celebrate the victories- but also think about ways that we all can inspire change everywhere!

CRAFT FAIR FOR A CAUSE (Chie) (5-8) *Arts & Crafts*

Create some spectacular pieces and sell them for a good cause. While creating, we will have great conversations about why it's healthy to pour yourself into your art and sell it.... sometimes.. other times gift it.. or simply keep it because it makes you happy.

CRYPTOZOOLOGY AND CREATURES (Kimber) (6+) *Social Studies-World Cultures, Literacy-Folklore, Art*

Things that go bump in the night can't scare us in this "freaky" fun class! Elusive beasts like The Loch Ness Monster, Bigfoot, the chupacobra... the possibility of monstrous, magical and other-worldly weird creatures has always fascinated us, capturing the imaginations of people around the world for centuries. Can we prove that they exist? Have people really seen them? Whether it is fairies, shape-shifting humans with supernatural powers, or peculiar beasts of mythology and legend, they all still continue to thrill, entertain, and bemuse us. In this unique class, students will discover the power of folklores, mythical legends, cryptids and stories behind the beasts of this world- and the world of our imaginations. Mermaids, sea serpents, dragons, unicorns, griffins, kelpies, banshees, werewolves... and the list goes on and on. Inspired by crazy sightings, cool stories and folklore about fantastic beasts, students will then work on capturing the essence of these creatures through a variety of art mediums and exciting projects. Join us on the ultimate quest for the world's most mysterious creatures!

DEEP DIVERS MATH (Semester 2 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

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will combine general topic presentation and explanation with independent in-class work at an individualized pace and level. Each class session will begin with a 15-minute topic mini-lesson, which will be followed by independent teacher-supported student practice. In-class and at-home assignments will utilize the Khan Academy online interface. Deep Divers Math is a multi-level course and can be repeated for any number of semesters while the student prepares for pre-algebra.

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

DID I MENTION INVENTION? WHEEL TO WEB (Liz) (7+) *History*

Is this class the greatest thing since sliced bread? Quite possibly. Since the invention of the wheel, humans have been inventing things that make our lives efficient, to help us explore, and to help us live longer. In this class we will look at some of our greatest inventions from the wheel to the combustible engine, from the printing press to the internet. As a group we will chart how these inventions have helped (or hindered) us and how they connect to each other.

DIGITAL FILM PRODUCTION: COMMERCIAL, PUBLIC SERVICE, & ART (Digital Dragon) (11+) *Technology*

In this class, student groups 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. Commercial projects could include, but are not limited to, tv commercials, short form documentaries, or promotional videos. Public service projects will identify a message that benefits their school or community and develop it into a video public service announcement. Art projects could be a music video, narrative film, or experimental film.

DIVIDE AND CONQUER (Joe) (8+) *Math*

Once students have mastered multiplication, all sorts of opportunities present themselves. One of the most important doors that opens, is that division becomes accessible. Students who try to move forward into division before having their multiplication to 12x12 memorized, struggle a lot. But students who have mastered multiplication are ready to turn it around and divide. In this class we'll focus on long division and lots of practice. We'll use both fractional and decimal remainders and spend a lot of time seeing how they relate to each other. We'll learn about division, fractions, decimals and percents. Many of the concepts in this class overlap with pre-algebra concepts. This class is a good supplement to pre-algebra for students who want to be thoroughly prepared for the next level!

DO RE MI CHOIR (Do Re Mi) (5+) *Choir*

Do you have a kiddo who just LOVES to sing? Then the Do Re Mi Children's Choir is THE place to be! Children will learn how to navigate their voices, develop their ear, and create music as a group in this fun-filled musical jamboree! In addition, your child will learn the basics of music theory and solfege, all while singing the hip, catchy tunes of today!

DUNGEONS AND DRAGONS (Josh) (9+) *Logic, Strategy, Dramatic Arts*

Embark on an epic adventure to save the princess!.. or find treasures of untold value... or maybe just become the ruler of the world. Dungeons & Dragons is a team-oriented role-playing game where students get to explore their individuality and creativity. We will take on alternative personas and work together to overcome challenges with a

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combination of strategy, teamwork, and imagination. On top of all that, we will get to work on our acting & writing skills while having a whole bunch of fun.

ENERGY AROUND US (Kara) (5-9) *Science*

Sound, Gravity, and Calories? Energy is EVERYWHERE! In this class we will learn all about the different types and forms of energy: How it moves things. How it keeps things in place. How it lights things up. How it keeps us warm. We will also dive deep into energy conservation and why it's so important.

What did the baby light bulb say to the mommy light bulb? "I love you watts and watts!"

ENGINEERS AND ARCHITECTS: ART AND GEOMETRY IN DESIGN (Linda) (8+) *Art, Math*

Geometry, shape and form are the basic tools of architecture. We will explore concepts such as symmetry and balance, patterns, Fibonacci's golden ratio/spiral, geometry and fractals in nature, movement and transformation in design and other important ways that math insinuates itself into art and the art of architecture. Projects take their inspiration from Frank Lloyd Wright and Gothic stained glass windows, Ancient Greek and Renaissance architecture, origami, spirographs, Calder's kinetic sculptures and anywhere math meets design. We will also learn to draw our own building designs using one- and two-point perspective.

ESSAY BASICS (Bonnie) (9-11) *English*

Thankfully, there is an easy-peasy formula to those pesky essays all people will be required to crank out in life. Essay Basics is taught by an actual Essay Writing Lover (Bonnie). Let's ace the steps to writing a clear articulate essay, that will leave you feeling like you have the upperhand. Excellent practice for confident writers and/or beginners to the Non-Fiction genre. Expect relevant homework.

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

We are speaking to write. Students are picking topics that really get them going and are telling the crowd all about them, both verbally and in writing. We will have 'aha' moments, experiencing the fact that writing really is just speaking! Kids will own their voices, experience punctuation, and critique one another's public speaking and writing abilities. Work ethic expected. Regular relevant homework.

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

Closed to 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, 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.

EXPLORERS OF THE UNKNOWN (Nathan) (8+) *Science, Geography*

Let's get super curious in this fun-filled exploration class where kids will discover new places and phenomena that will blow their minds! What kind of fish live in the Marianas Trench? What in the world is Stonehenge? Do rocks

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really move across the ground all by themselves right here in California? Let's investigate some of the coolest most interesting mysteries our planet, and maybe even other planets, has ever known!

EYES ON HUMANITY: MINDFULNESS, MEDITATION, AND ACTION (Jimmy) (5+) *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.

GEOMETRY (Semester 2 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 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.

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

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GLICH HOUR (Shirley, Nathan or Ryan) (5+) *Independent Study*

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GLOBAL STUDIES: MASKS AND BODY ART AROUND THE WORLD (Kimber) (5+) *Art, Geography, Social Studies*

While globe-tripping through different countries and cultures, students in this unique, fun class will explore many beautiful and vastly different kinds of masks, jewelry and body decorations. Through exciting projects, interesting presentations and visual examples, students will discover that these wonderful body adornments and expressions of creativity are as different as the people themselves. Students will explore how masks and body art are used for a variety of purposes including expressing self identity and culture beliefs, as well as for storytelling, celebration, disguise, protection, decoration and even for spiritual reasons. Some masks are considered to be alive and possess great power. Some tattoos and jewelry, like those worn by Celtic Warriors going into battle, were used as a psychological form of armor and intimidation. Taking inspiration from interesting environments and colorful cultures, students will then build and decorate different kinds of masks, jewelry and other vibrant body art, using a variety of creative methods and techniques including painting, plastering, sculpting, molding, glass fusing and beading. Are you ready to set off on a cool adventure where decorative, functional and wearable art meets geography and cultural exploration?

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,

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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.

GOOGLE DOCS AND FEATURES (Joe) (9+) *Technology*

In this class, students will develop skills using internet apps and utilities to improve productivity and workflow. Special emphasis will be placed on using Google Drive and Google docs to write, format, collaborate and share written work - we'll explore editing, formatting, character and paragraph styles, heading types, bullets and numbering, use of tables, page numbering, insertion of videos and pictures, etc. We'll also explore spreadsheets, forms, and charts and slideshows.

In addition to our exploration of the Google Drive suite, we'll also strategize productive internet usage, and gain exposure to great infosources and websites.

Because of limitations with the functionality of the google tablet apps, students who take this class will need to have their own laptop available to bring with them on class day.

GRAPHIC NOVELS (Brittany) (10+) *Writing, Art*

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.

HAMILTON (Liz) (9+) *History*

Who lives, who dies, and who tells your story? The story of America was told by those who were there at it's beginning. Students will read first-hand accounts of the battles, both physical and political, that laid the foundation for our nation. We will become immersed in the time period by recreating the time-line, studying historical documents, and researching the key figures. After students have a solid foundation of the history we will explore how this story continues to be told in the musical Hamilton. How much of this musical is fact turned into lyrics and where has the truth been stretched to serve the song? In the end we will be satisfied that we have learned all we can.

HIKERS CLUB - ADVENTURERS (Nathan & Shirley) (9+) *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!

HIKERS CLUB - EXPLORERS (Kara & Chie) (5-8) *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!

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If you ask for my plans for today's hike, I'll summit up nicely.

HISTORY GAME: 19TH CENTURY CONTINUED (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 ARCHITECTURE: 17TH TO 20TH CENTURIES (Linda) (7+) *History, Art*

Starting with the Renaissance (where we left off in the History of Architecture class of Spring'19) and continuing through to the proliferation of skyscrapers of the 20th century we will journey through the cultural and aesthetic influences on architecture. Learners will explore the history and context of the important buildings that shape various cultures, the technological advances that significantly impacted the development of their architecture, and the impact of cultural values on architecture. We will explore how war and technology led to ancient greek aesthetics permeating the architecture of Renaissance Italy and how these same ideas were reinvented across Europe, lay dormant during the excesses of the Baroque and Rococo periods, and then emerge again during Neoclassicism. We will allow the works of brilliant architects such as Filippo Brunelleschi, Gian Lorenzo Bernini, Antoni Gaudi, William Van Alen, Frank Lloyd Wright, Frank Gehry, Mies Van der Rohe, and Eero Saarinen to inspire us in our own designs and projects.

HISTORY OF FASHION (Linda) (8+) *History, Art*

It has been said that fashion is a reflection of our time and political culture. How did a women's movement, two world wars, the Great Depression, prohibition, the civil rights movement, the counterculture and other significant historical events influence and reflect in the fashion of each era in the United States? We will explore the events of the time and the main characteristics of the period in men's and women's clothing through sketches, models, collage and creating our own accessories.

HISTORY OF ROCK! (Jimmy) (8-10) *Music, History*

In History of Rock students get to not just listen to, but also study some of the great bands that changed our world. We will study 50's early Rock and Roll (Chuck Berry, Buddy Holly, Elvis Presley, The Ronettes), 60's British Invasion (Beatles, Stones, The Who, The Kinks), 70s Rock (Led Zeppelin, Doors, Pink Floyd, The Eagles), late 70's Punk Rock (The Clash, The Ramones), Mid 90's Alternative (Green Day, Weezer, Smashing Pumpkins, Nirvana). Students will pick their favorite band and do a report complete with a history of the band. We will look at album art, posters, first-hand accounts, live shows, recordings, albums, and songs. Hey, hey, my, my rock and roll will never die.

HOW THINGS WORK (Joe) (8-10) *Science*

In this class we'll take things apart to see what makes them tick - or if they don't tick, we'll take them apart anyway to see what makes them do whatever it is they do do! We'll learn about motors and electricity and magnetism and circuits and wires and lights and gears and pulleys and belts and tubes and all sorts of stuff. Along the way, we'll learn about screws and screwdrivers, levers and pliers and wedges and hammers. We'll take things apart as neatly as

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we can, but sometimes we'll just let loose and crack them open anyway we can! The important thing is to figure out what's inside and what it's doing in there... or at least what it was doing before we broke in. This class involves disassembling small mechanical devices and household appliances like blenders or toasters or mixers or lamps or clocks or record players or cd players or radios or... well, you get the idea. So, parents are encouraged to donate and broken or discardable machines to the class - the better the objects we have to disassemble, the more fun it is!

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

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 Bright 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 - 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 Bright Knight journey. May the Force be with you.

HOW TO SURVIVE A ZOMBIE APOCALYPSE (Kimber) (10+) *Game Play & Strategy, Science, Health & Wellness*

There's nothing worse than being stuck in an impending apocalypse without some basic knowledge, skills and crucial essentials on hand... and an impending zombie attack is no laughing matter! Through a series of games, lively "undead" question-and-solution stories and dramatic play scenarios (and using "zombies" as a jumping off point for exploring real information)... students in this crazy fun survival class will be challenged to think about all aspects of a zombie pandemic. What about health needs, containment, food storage and cure? In order to be extra prepared and gain some serious zombie knowledge, students will learn all about the physiology of a zombie (and previous human state), as well as how to create an all-hazards emergency kit (coincidentally suitable for earthquakes and other natural disasters) and perform basic first aid skills (as long as it's not a zombie bite). What wilderness and survival skills, tools and techniques will be needed for escaping an undead onslaught? Students will practice how to take care of basic living needs, create a safe shelter, and preserve and store food. And what about "catching" the virus? Students will also explore how a virus actually affects the body, how a virus spreads, the speed and distance travelled, prevention tips and how different living areas would be affected. Need to know the quickest direction to run? In addition, students will practice how to read a map to determine best exit routes and safe assembling areas, as well as locate the closest hospital, gas station, grocery stores, bank, and other buildings of importance. All this and more... and of course, this class wouldn't be complete without some escape room type games and special effects zombie makeup play.

HUMAN BODY: NERVOUS SYSTEM (Linda) (9+) *Science*

It is generally agreed upon that communication is everything. Our nervous is the means by which we receive information and send back information to our inner world and outer environment. While there are many animals out there surviving quite well in the world with almost no nervous system, much less a brain, we have come to a point in human evolution where our advanced brain is a source of much pride. Other animals may have more advanced senses of smell, hearing, or even senses we don't possess, but the human brain is a remarkable organ. The nervous system absorbs information, analyzes and forms plans on how to react to our environment while simultaneously directing all the internal systems that keep us living and breathing. Students will discover what

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makes up the nervous system, including the five senses, and how the components work together to keep us safe, fed, create art and language, and allow us to contemplate the universe.

HUMAN PROGRESS: PROS AND CONS, AN ARTISTIC DEBATE (Kimber) (7+) *Speech-Debate, History, Science*

Want to learn how to win an argument? Students in this unique class will explore the history, importance and role of science, technology and progress, as well as the impact and consequences on society. The use of technology to improve the quality and convenience of life has obviously been good but what about the negative consequences? When we weigh the pros and cons of progress, do we really come out ahead? Through lively discussions, fun research projects and exciting games, students will explore all sides of specific “advances” and other new possibilities. What are the best choices? What will the future hold? To name just a few topics... sources of energy, genetically modified foods, human cloning, mutating microorganisms, brain scanning, cameras everywhere, extreme robotics... whew! What about the negative effects of global warming and climate change? Are these developments really for our good or are they becoming a threat to us? And what better way than to “argue” the pros and cons of progress than through a contest of words; In addition to exploring the benefits and detriments of specific issues, students will also be introduced to the art, rules and strategies of debate. If you only had a certain period of time to “convince” people about your side of an issue, what would you say? Watch out parents! Watch out world!

ILLUSTRATORS WORKSHOP (Tommy) (8-10) *Art*

Starting with our own thoughts and creative ideas, we will as a class first decide on one subject to start with. We will sketch the subject out in our artist journals, as well as jot down any ideas we may have - such as its color and size - with the understanding that there is no right or wrong interpretation. Using everything from tiny paper to huge canvases, our artistic interpretations of the shared object will come to life. As artists, we will develop our own style and our own unique vision of the world - it will be exciting to see how each student portrays the same subject!

IMPROV AND SPY GAMES (Josh) (8+) *Theater*

Just say yes! Improvisation is all about being able to roll with the punches; something we can all relate to in life no matter what we’re doing. In this class, students will play a variety of improv games and exercises encouraging us to jump in headfirst to new situations and challenges. Creativity, cooperation, imagination, and spontaneity help develop confidence that translates to powerful self-assured decision making in life. All that aside, we’ll have a lot of laughs while learning. and a whole lot of fun. No matter how young or old, this class has something for everyone.

INDUSTRIAL & STEAMPUNK ART (Kimber) (5+) *Art*

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

INDUSTRIAL REVOLUTION: THEN AND NOW (Linda) (8+) *History, Technology, Social studies*

Humans lived more or less in harmony with other species and with the land for millions of years until the First Agricultural Revolution (circa 10,000 BC), the prehistoric transition from hunting and gathering to settled agriculture. Then, far more dramatically and recently, in the 18th century BCE human ingenuity and invention led to the first in a series of Industrial Revolutions. Steam power, electricity, the railroad, the cotton gin, and a host of other inventions permanently changed not only human society but eventually the face of the entire planet. Not everybody was a fan of the new “progress”. Groups such as the Luddites fought against the new technology. Others expressed the mixed feelings of society towards the changes brought about by science in works of art and literature such as Mary Shelley’s *Frankenstein*. This class will explore the inventors, the transformations for better and worse, the fear and

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excitement each major stage in the revolution has brought and speculate on what the future revolution will bring.

JOURNEY THROUGH A BOOK: FEVER 1793 (Liz) (9-11) *Literacy, History*

It starts with a fever, maybe a bit of a headache then the nausea sets in. By the time your skin and eyes turn the tell tale yellow it may be too late. In 1793 Yellow Fever swept through Philadelphia. Our book follows one young girl as she struggles to keep the family business going, care for sick family members, and keep herself healthy. We will read through the book as a class taking time to explore the real life historical events. We will also explore how medicine tried in successful and not so successful ways to curb this outbreak.

JOURNEYS: TO BE A CITIZEN (Bonnie & Shirley) (10-11) *Research, Community-Building*

What does it mean to be a citizen? How does one become a citizen? Why do people choose to move to the United States? What is the American Dream? Does it often come true for those who become citizens of the United States? What is it like to settle into a new country and culture?

Students will be looking at this issue from past to present, and from the perspectives outside and inside of the United States. We will travel through Los Angeles to museums, courtrooms, Federal Buildings, to people's living rooms to find out about why and how citizenship was obtained and experienced by neighbors and community members.

Lastly, as a citizen, what does that mean for each student? How can they understand the rights and responsibilities that come with the title.

As writers, the students will engage in the art of research and gathering information. This will be a guided, introduction into finding resources, assessing credibility, extracting pertinent information, and summarizing their research.

Creatively, students will engage in an artistic and theatrical expression of their research and discoveries.

KINDERTECH: ROBOTICS AND ENGINEERING (Digital Dragon) (5-8) *Technology, Engineering*

In this session, young tinkerers 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.

KNOW WHAT (Joe) (9+) *History, Science, Geography*

Know What is a general knowledge quiz game. Students take turns answering questions from six topics: Art & Architecture, Science & Math, Literature, History, Geography & Government, and Mythology, Folklore and the Bible. Most weeks we add twelve new questions to our ever-expanding collection of interesting tidbits of knowledge. Students can learn as we go, or access the questions and answers via www.joesclasses.wordpress.com for at-home practice and study.

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

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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!

LABEL SAVVY: WISE CONSUMERS (Chie) (5-10) *Nutrition & Health*

Expensive food is not always healthy food. Learn what a “food desert” is. Understand how you can go anywhere and eat yummy delicious savory and sweet in a clean way. We will be eating real clean food every week. All vegetarian. We will be visiting the Co-Op Santa Monica along with other great stores. *This class will contain nuts.*

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.

MAP QUEST: 3D GEOGRAPHY AND ART (Linda) (8+) *Geography, Art*

Smart phones and google maps have made life infinitely easier for those of us without an inner compass. The ability to map the world around us, read a topographical map on an off-trail hike, and read a road map when there isn't any service for the gps are still important and relevant skills. We will look at and create our own versions of maps made by early explorers of the planet when the world was flat and sea monsters were to be avoided with extreme caution. Using ratios, scale, and proportions we will create a “mauraders” map of the Realm, and translate topo maps into three dimensional landscapes. We will use roadmaps to plan a road trip (and fold them back up again) and explore how scientists map those hard to reach areas such as the deep sea floor and the surface of distant planets.

MASTER OF THE TABLE: DOMINION AND BEYOND (Josh) (9+) *Strategy & Games*

Strategy is at the heart of every decision we make, so why not be a tactician!? This class will engage students in a variety of strategic card & board games, allowing them to hone their ability to critically analyze all different kinds of situations and make tactful decisions. Students will learn lessons from Sun Tzu's “The Art of War,” which will serve as a backdrop for all of our strategic decisions. From reading our opponents in Poker to dominating the world in Risk, there is an abundance of skills to explore.

MATH MAVERICKS (Semester 2 of 2) (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 they can get ready for the future!

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

Math Marketplace is a great way to share your creative ideas in the “market.” You will be creating a product that you will want to sell later in the semester and learn how you will be getting the right amount of money for your product. When selling a product you want to look at the value of the materials, how to give change, the production and labor cost, and many more when it comes to creating your product. We will be looking into ideas of creating a lemonade stand, lanyards, ice cream sales, and more. Before we will be doing the fun stuff, we need to take a step back and go into the fundamentals of math. Come on this journey with me and create your own commodity.

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MATH-TERMINDS: ADD AND SUBTRACT (Shirley) (5-6) *Math*

Do you want to become a math-termind? Your little ones will be learning about the symbols of addition and subtraction. We will explore more mathematics by creating stories and using math strategies to find a solution. We create math the fun way, the only way.

ME ON THE MAP (Nathan) (5-8) *Geography*

In this class students will start to work towards understanding where they are in regards to the world around them. We will learn to read, navigate, and even create maps and models that show where exactly we are. From the classroom to the city to the state, country, continent, planet, and even the galaxy we will build an understanding of our place in the endless universe!

MELODY IN MY PAINTBRUSH (Kimber) (5+) *Art, Self-Expression and Exploration*

Dance a paint brush across a canvas! Given a variety of fun art tools and mediums, the freedom to express themselves- and using different kinds of music to inspire and move them, students in this wildly creative class will create magical pieces of art! From classical and jazz to samba and techno, from Celtic chill to African tribal beats, students will explore a wide range of tempos and musical genres, and let the music move them to create a variety of different forms of self expression, art and paintings. Students will discover music's emotional power and gain an understanding of how much of a role emotion plays in art making as they create their own masterpieces based on feelings. Musical tempos can also influence the thickness of a line, the dab or drip, the slash or dash of a paint stroke, or the light or dark in a color. Get ready to express your inner self while dancing to the beat!

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

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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.

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.

MICROSCOPIC, BOTANICAL, ZOOLOGICAL, AND HUMAN ANATOMIC SCIENTIFIC ILLUSTRATION (Linda) (10+)

Science

In this class students will become experts at using a microscope, collecting specimens, making slides and focusing images. We will take an evolutionary look at microscopic life. As a class we will build a visual timeline of life through the microscope. Student will draw detailed microscopic specimens and then map them on a geologic time scale. Discover the wonders of the microscopic world as we will study bacteria, protozoans, eukaryotic cells, plants and animal structures.

MINECRAFT: REDSTONE ENGINEERING (Digital Dragon) (8+) *Technology*

If you love Minecraft, then take it to the next level with Redstone engineering! Turn your Minecraft structures into Redstone wired fortresses with automatic lighting and secret doors. Create challenging obstacle courses with moving blockades and timed traps. Learn programming principles with Redstone triggered Minecraft commands and command blocks that make characters and structures do amazing things--from controlling the time and weather to spawning creatures and portals to other dimensions.

MINI ME: THE BORROWERS AND MINIATURE ART (Kimber) (8+) *Art*

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

MONSTER MANDARIN (5-7) *Foreign Language*

Monster Mandarin is a play-based approach to learning a foreign language. It incorporates the elements of sensory play, storytelling, and singing & dancing to make learning as fun as possible! Your little monsters will progress on a path to full immersion in Mandarin Chinese, while creating works of art and getting messy or listening to our teachers act out the stories like the little seed who learns to make friends! Your little monsters will build on this by incorporating games and science experiments all while listening to and speaking Mandarin Chinese. What better way to learn a foreign language than by playing kerplunk to learn the multiples of 10 or experimenting with the science of rain clouds by creating rainbow rain!

MULTI-MEDIA EXPLORATION (Tommy) (8+) *Art*

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Tints, tones, shades, basic color mixing, textures - an artist could take a lifetime exploring colors! Fear not creative kids, it doesn't take any special skills to start! All you really need are some supplies, imagination and the willingness to have fun and make a mess. Get ready to go with your feelings and express who you are or what you love on paper or canvas.

MUSICAL THEATER: INTO THE WOODS (Kids on Stage) (9+) *Theater, Performance*

Into the woods, each time you go, there's more to learn of what you know ... 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 Into the Woods.

MY MASTERPIECE (Tommy) (5+) *Art*

Who are you? Art is a perfect way to show who you are without saying a word. As an artist, my art comes from what I have experienced - places I have traveled, people I have met and things that I love to do. Someone may not know me, but upon seeing my artwork, they will see who I am and what I love.

In this class, students will create works of art based on their own individuality - their own interests, hobbies, style, personality, etc. Students will be encouraged to be funny, candid, inspirational and show who they are and what they love.

MYSTERIES OF THE WORLD (Kimber) (8+) *Art, History, Geography*

This world is such a wondrous place and some things are just so strange that they just can't be explained... or can they? Students in this zany class will explore unexplained world mysteries, lost civilizations, ancient ruins, mystic places, sacred writings, strange artifacts, science puzzlers, and more. Many mysteries have been solved but many others... despite the efforts of our most revered historians, cleverest cryptographers and most determined treasure hunters, history is full of riddles that continue to confound us today. Through cool adventure stories, "solve-it" games, replicas and fun creative projects, students will delve into these mysteries. Will we find the Lost City of Atlantis? Will we figure out how the 5-ton Moai statues on remote Easter Island got there in the middle of the Pacific Ocean? Or the 5,000-year-old coins that have been found buried in the United States. The mind boggles with the unanswered questions... Was King Arthur real? What is the Voynich manuscript? Why was Stonehenge built? And what about ghost ships, alien contact, and technology supposedly built thousands of years before their time? Confounding conundrums! Let's see if we can crack these cases!

MYSTICAL FOREST THEATER (Kids on Stage) (5-8) *Theater, Performance*

SING, DANCE, IMAGINATIVE PLAY, COSTUMES! This Creative Dramatics class is for those who love to sing out and create stories in a supportive and joyful environment ! Work with a theater professional and experience theater games, singing, dancing, and learning to embrace your unique voice. This class fosters teamwork, self-confidence and inclusion. Each week songs will be interwoven into an original improvised 'Play-of-the-day'. Parents are invited to the last class for a final open class presentation.

MYTHOLOGY UNMASKED (Liz) (8+) *Social Studies*

We are familiar with Zeus, Thor, and Athena? But do you know Quetzalcoatl, Kamaitachi, and Wakan Tanka? In

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Mythology Unmasked we will explore the world of myths that goes beyond Greek and Roman. Students will dive deep into the symbolism of these different stories and explore why we tell these tales. We will gather our knowledge to create masks to represent the various myths that we learn about.

NATIVE PEOPLE OF SOUTHERN CALIFORNIA (Linda) (8+) *History, Art*

What was it like right here where you are standing hundreds or even thousands of years ago before Europeans set foot? We will explore the daily life, the rituals, artwork, cuisine, politics, and cultures of the people who lived here in California first. We will look at the variety of tribes and how their cultures differed depending on the environment they lived in and depended on.

NOVEL TEA: NATION (Liz) (11+) *Literacy, Social Studies*

What makes a nation? Is it the land, the people, imaginary lines drawn on a map? If you had to start your own nation what would you do? In the book *Nation* by Terry Pratchett we explore a world torn apart by disease that is rebuilt by a young boy and girl. They work together to form a new nation and all that it would entail. As readers we will explore the themes of belief, fate, and ancestors. And as we move through the book we will create our own nation. We will choose our environment, our government, our beliefs, and our customs to make the ideal place for us to live.

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.

ORDER IN THE COURT (Josh) (8+) *Theater, History, Ethics, Philosophy*

Justice is a core tenant of our society, but what is justice? In this class, students will learn about law & justice from both a practical and philosophical standpoint. We will engage in role-playing the various characters in a courtroom, participating in mock trials and debates. Not only will everyone learn about how the court system works, but we will also experience its efficiencies and shortcomings. This class will work to broaden perspectives on what it truly means to be innocent or guilty!

PRE-ALGEBRA (Semester 2 of 2) (Joe) (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).

THE PRESIDENTIAL ELECTION: CAMPAIGN AND PRIMARIES (Joe) (9+) *Civics, Social Studies*

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It's election season and the primaries are coming up! Do you know how this whole election process works? In this class, we'll follow the candidates as they vie for their party's nomination. We'll get to know who's running, and what they stand for. We'll find out about the issues and try to figure out which candidates most closely match our values and views. We'll practice taking polls and voting on the issues in class. While we're at it, we'll learn about the election process and about some famous historical campaigns and elections!

QUEST: THE PATH TOWARDS IMMIGRATION (Nathan & Brittany) (12+) *Research, Community-Building, Literacy*

The United States is a Melting Pot. What does that mean? Historically what has drawn people to the United States? Where have people come from? What is a refugee? What is the American Dream? What is the path towards citizenship? How have Immigrants been greeted by the United States? What are historical and current stories of the immigration process?

This semester students will look at immigration historically, and why people have left their native lands. They will learn about why large populations of people have chosen to come to the US. They will learn about what qualifies a person to become a citizen. They will learn about the rights and responsibilities associated with citizenship.

Students will be looking at this issue from past to present, and from the perspectives outside and inside of the United States. We will travel around Los Angeles to museums, courtrooms, Federal Buildings, to people's living rooms to find out about why and how immigration occurred and experienced by neighbors and community members.

Lastly, how do we view immigration today? What is the debate? What are different points of views? How can we think locally, nationally, and globally?

As writers, the students will engage in the art of research and gathering information. This will be a guided introduction to finding resources, assessing credibility, extracting pertinent information, and summarizing information.

Creatively, students will engage in an artistic and theatrical expression of their research and discoveries.

READ, WRITE, THINK: NUMBER THE STARS (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!

As we read the beautiful novel "Number the Stars" by Lois Lowry, 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 use these skills combined with this incredible book to learn about moments in history that shaped our world today. 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!!

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REALM BEE FOR SPELLERS (Nathan) (7-10) *Spelling*

Let's work on spelling so that when we write stuff other people will know what we are trying to say. Sound good? We are going to turn spelling into a game! What better way to work on spelling than to make a super fun, ultra challenging game out of it! Our kids will be competing and sharing tricks for practicing spelling words of all different levels and abilities. Each student will have their own role in our game that best fits their interests and inspires them to practice brave spelling, learn the rules of phonics, and to sharpen and develop reading skills.

REALM MARKETPLACE: ENTREPRENEURS (Nathan) (8+) *Math, Practical Life Skills*

Have you ever dreamed of starting your own business? I know I did but what I never really knew was how much work it would be to do it right, to do it for real. Students will brainstorm ideas, write business plans, apply for business loans, create spreadsheets, open and operate their own businesses and find out if they have what it takes to be real life entrepreneurs.

REALM STUDENT GOVERNMENT: COMMUNITY ARCHITECTS (Jimmy) (7-11) *Politics, Social Studies*

Here rests our future - the REALM Student Government. Tomorrow's leaders will gain the basic footing of working together for the betterment of the whole. Introduction to democracy and Robert's Rules occurs in a safe atmosphere. Events and action items for the Realm community are spear-headed. Note-taking, being fiscally responsible and following an agenda are involved. Teamwork exercises occur regularly - this REALM class brings the students together in the name of service. Kids learn to voice opinions and respect others opinions and even work on that age old art of compromise. A Cabinet will be elected from within with rotating positions learns to put differences aside and function in a way which keeps the greater good as the top priority. Throughout the semester we also study various systems of government and inquire about our democracy and civic duty.

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. Climber Problem #1- Chalk dust. Chalk dust everywhere!

SANTA MONICA SUPERHEROES (Jimmy) (5-7) *Mindfulness, Social-Emotional, Civics, Service*

In Santa Monica Superheroes we attempt to embody the everyday hero and work together as a team for the betterment of Santa Monica. From small unknown acts to larger organized acts, we make the concerted, intentional, effort to improve the environment around us and give ourselves to the greater good and its accompanying harmony. Students will pick projects they are interested in pursuing and will be encouraged to think outside the box in their approach. This is an exercise in service, which provides students with a foundation of connection for the rest of their lives.

SCIENCE OF SUPERHEROES (Professor Egghead) (5-9) *Science*

Calling all Eggheads to the lab with the SCIENCE SYMBOL! Eggheads become science superheroes this session as they bend their vision, learn about super smelling, crazy illusions, ultrasonic hearing and tons more! Each week, Eggheads will learn the science behind super strength and all the other things our superheroes need, and take home their

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experiments to help them be super themselves! At the end of the session, every Egghead will become an official Science Superhero with a Degree to prove it!

SCRIPT WRITERS (Brittany) (9+) *Writing*

In this class students will learn the basics of script writing. This will include exercises to develop ideas, such as brainstorming, character profiles, character dialogues, and plot charts. We will also take a look at sample scripts to get a sense of storylines, script elements, style, and format. Students will work on writing their own script during the semester.

SINGING ON BROADWAY! (Shirley) (9+) *Performance, Vocals*

Come walk on the red carpet to stardom as we enter the doors to the Broadway stage. We will be singing songs from many Broadway shows like *Wicked*, *Hamilton*, *Chicago*, *Dear Evan Hansen*, *The Lion King*, *The Phantom of the Opera* and more. Come sing with me and find your love for Broadway!

SKETCHBOOK: TIPS AND TECHNIQUES (Tommy) (5-7, 10+) *Art*

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. Whether kids want to create stylised or realistic pencil drawings, this class will take their skills to the next level!

SNACK BREAK! YUMMY NUTRITION AND BEYOND WITH CHIE! (Chie) (5-9)

It's 2:30PM.... Perfect time for a healthy snack! Are you wanting to add some exciting twists to those snack moments? Let's break the routine and bring on the flavors of the world. You will learn how to use basic kitchen appliances like blenders, mixers, and the toaster to make simple delicious snacks!

THE SOUL OF AMERICA (Joe) (10+) *History, Social Studies*

This class is a supplement to *Quest and Journeys*, which this semester will be exploring *Immigration and Citizenship*. It will provide students with an opportunity to gain a deeper understanding of the historical and cultural context of American values - what they are, how they've developed and where they came from, especially with regard to immigration. Students will look at our own culture - and their own heritage - and values, and recognize how these have developed over time and how they impact, inform and inhabit each of us. We'll learn about historical people and events and interpret how they've affected who we are as individuals and as a society. Some of the readings we will explore in this class will be pulled from Jon Meacham's 2018 book, *The Soul of America: The Battle for Our Better Angels*.

SPORTS CLUB (Jimmy) (8+) *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.

Please review the Spring 2020 Class Schedule for age ranges of individual classes.

SPORTS TALK: STATS, LINE-UPS, DRAFT PICKS AND MORE (Jimmy) (8+) *Sports, Math*

Welcome to KRCA Radio - on the show this morning we have a team of knowledgeable guests. They will be Wowing you with their grasp of the players, teams, and trends in all the top leagues of the major sports. The guests will showcase their grasp of the eye-test, statistics, projections based on left brain - numbers, and right brain - intuition. They will be talking NBA, MLB, NFL, UEFA Euros. They will be talking contracts. They will be giving you the inside scoop on the story within the story, and they will be pontificating about the big picture. Our guests will understand the beauty and lessons of sports and sportsmanship, and they will examine the viewpoint of the fan/s, the coach/es, the owner/s, the player/s and how each can play their respective role in the healthiest way.

STORYBOOK ADVENTURES (Shirley) (5-7) *Literacy*

Have you ever wanted to explore and create your own adventure but wondered how to do it? We will be exploring the big, wide, wonderful world of reading in creative and fun ways. Early readers will strengthen their abilities, become authors, and increase their love of books!

STORYTELLERS: UNLOCKING THE CREATIVE BRAIN (Brittany) (7-9) *Writing*

Albert Einstein said, "Imagination is more important than knowledge." This class will involve a mix of writing exercises and activities that are designed to help kids access their creative brain. It will also involve some storytelling, reading, and drawing. We will engage in inquiry based learning and discussion to give students the opportunity to discover their creativity and explore the connections between writing and reading.

TAXONOMY AND LATIN ROOTS (Linda) (10+) *Science*

This is an in depth study of organisms and word roots. In this class we will study taxonomic groups from bacteria to mammals, from the smallest algae to the largest trees making connections between Latin and Greek root words and the characteristics of living things. Learning root words helps students to decode unknown words in text across all disciplines. Each class we will delve into a taxonomic group and decode the meaning of their names studying Greek and Latin root words.

TIMELESS MOSAICS (Kimber) (9+) *Art History, Art*

The adventure continues! Students in this unique class will be introduced to the wonderful world of mosaic art. Students will explore the history and evolution of this diverse and exciting art form, beautiful pictures and patterns through the strategic placement of colored pieces. Students will experiment with design and placement as they create colorful glowing glass and vibrant tile projects in fun new ways. Students will learn about safety, how to use a variety of tools, 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-fusing and slumping. After our initial ceremonial plate breaking, students will then create a variety of pieces including mosaic portraits, dragonfly and butterfly sun catchers, a large collaborative piece, pendants and beautiful hanging art piece/mobile with mixed media.

WHEN DISASTER STRIKES (Nathan) (5+) *Practical Life Skills*

Do you know what to do when disaster strikes? From fires to hurricanes to earthquakes and more it seems like disasters are happening more and more frequently. The most important thing we can do is be prepared. In this class we will begin that process. Families will also be asked to participate so be ready for family homework as students

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will need to prepare disaster kits, create plans for the whole family, and even purchase supplies. We will also be practicing first aid and other life saving procedures as we transform from victims to heroes and prepare ourselves for when disaster strikes!

WHERE IN THE WORLD? AFRICA (Nathan) (8-10) *Geography*

What hemisphere is Lake Victoria in? Does the Nile river flow north or south? Where in the world are Benin, Burundi, and Burkina Faso? If you answered “I don’t know” to any of these questions then this is the class for you...or, let’s say, your child. This semester our Where in the World game highlights the African continent. It’s the same game the kids have come to love but each and every one of them will walk away experts on motherland of humankind while also rounding out their whole world knowledge.

WONDER OF WORDS: NONFICTION AND HOW TO BOOKS (Jessie) (5-7) *Literacy*

The blank page is just waiting to be filled with ideas. In this writers’ workshop, students will be inspired by playful exercises that help to grow their writing muscles. While working on a series of Non-Fiction and How-to writing, we will learn that writing is a process and we will engage with tools that help us explore all parts of that process: gathering ideas, getting our thoughts on the page, stretching our writing long and strong, making our writing readable and sharing our words with the special people in our lives. Published authors and their Non-Fiction books will be our mentors as we explore various text structures and genres of writing that give us reasons to pick up a pencil. Word study sessions will encourage writers to use their brave spelling as they gain a command of sound patterns and sight words. We will grow our REALM library while exploring the glorious connection between reading, writing and communicating.

WORLD MATH: MONEY, MEASUREMENT, AND TIME (Shirley) (5-6) *Math*

Tick-Tock around the Clock! Welcome to the world of money, measurement, and time. We will analyze how to use money and learn the amount of each value. We will compare objects by size and measure objects with many lengths using inches and centimeters. When learning time we will be reading the clock in minutes and hours. With all that being said we will be working on project-based activities when it comes to all of these three aspects of math. I can’t wait to be in World Math with you!

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

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

WRITER’S PLAYGROUND (Shirley) (5-7) *Literacy, Writing*

The blank page is a playground for our imaginations. In this writers’ playground, students will be inspired by playful exercises that help to grow their writing muscles. We will learn that writing is a process and we will engage with tools that help us explore all parts of that process: gathering ideas, getting our thoughts on the page, drawing out our stories, stretching our vowels, making our writing readable and sharing our words with the special people in our lives. We will grow our REALM library while exploring the glorious connection between reading, writing and communicating.

WRITER’S TOOLBOX (Michelle) (7-8) *Literacy, Writing*

This class will focus on organizing writing to produce short essays, using simple and compound sentences and specific details. Students will learn the parts of speech, how to properly use punctuation, and how to edit their work

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to correct errors in grammar, spelling, and punctuation. Students will practice writing personal narratives and descriptive sentences and paragraphs, using sensory details to bring their writing alive. The class will explore writing that includes the elements of a good story to see what it looks like to produce writing that is interesting to the reader and that draws the audience in.

A WRITER'S WORKSHOP (Brittany) (10+) *Writing*

This class is designed for students who want to develop a story and learn how to participate in a writing workshop setting. Students will learn the concept of constructive criticism, how to give and receive feedback, and how to use commentary to build their stories and strengthen their writing. The class will also involve one on one teacher-student conferencing where I will provide feedback on their stories guiding them towards the development of their ideas in a balanced and clear manner. Learning how to receive feedback on one's own writing and implement it within their own writing is a very beneficial aspect of the writing experience.

WRITING SKILLS AND DRILLS (Bonnie) (9+)

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

THE YEAR OF THE RAT: EXPLORING CHINA (Kimber) (5+)

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

YOUNG SCIENTISTS (Tara) (5-10) *Science*

Let the experimentation begin! In this class students develop their own studies of their choice and conduct their very own experiment and then present their findings. They will be guided through the scientific process...from hypothesis, to data collection and analysis, then to the final step of forming meaningful conclusions from their studies. Findings will be presented as a 3 fold scientific poster in a REALM style science fair!
