

*Please review the Fall 2022 Class Schedule for age ranges of individual classes.*

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### **A-Z SOCCER** (Manuel) (10+) *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.

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### **ADVANCED MATH** (Semester 1 of 2) (Joe) (12+) *Math*

#### BY RECOMMENDATION ONLY

This class provides supplemental class time and one-on-one support for students in Algebra, Geometry, and Trigonometry. All of our upper level math classes at The Realm only meet twice a week, so having an extra hour or two for clarity, practice, extra explanation, and homework-help can really make the difference between “really getting it” and just, “kinda getting it”. These math classes are heavy with concept and abstract thinking, which can be challenging for students. This class gives students an extra opportunity to get support from their teacher as well as their peers.

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

The adventures continue with all new projects and materials, including ceramics! 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. Come get messy, splatter paint, sink your hands in some clay, cut, glue, plaster, and create!

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

#### BY RECOMMENDATION ONLY

This is a complete Algebra course. The curriculum will follow the Khan Academy course as outlined here: <https://www.khanacademy.org/math/algebra>. For many students, Algebra is their first exposure to abstract concepts involved with linear and quadratic functions - which can be both exciting and challenging. This is a fairly demanding class that requires students to arrive ready to focus and willing to give it their all. There will be weekly homework assignments to be completed online via the Khan Academy website. I encourage students to sign up for at least one hour of Advanced Math each week, as a supplement to this course.

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### **AROUND THE WORLD IN ARTY DAYS** (Kimber) (5+) *Art, Geography, World Cultures*

Ready to take an amazing art journey? While exploring geography and “traveling” through different countries and around the world, students will have a unique opportunity to also explore many different kinds of art and cultural crafts. Through exciting projects, fun stories and beautiful visual examples, students will discover that these expressions of creativity from each country are as different as the people themselves. All forms of art can be used as an expression of self as well as an expression of a country’s personality, beliefs, values and cultural identity. In addition to experiencing cool cultural crafts, we will also play with different art materials used in different countries, including paints, inks, dyes, papers, textiles and clays. Students will then create projects like Moroccan mosaics, Nigerian Yoruba cloth art, Mexican Amate bark painting, Turkish ebru and Suminagashi marbling, Hamsa hands and a variety of other fabulous folk art from around the world. I’m so excited to see how this wonderful exploration of our world’s countries, cultures and creative expressions come together in a beautiful mix!

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### **BEACHCOMBERS** (Joe) (11+)

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!

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### **BEGINNERS WINDJAMMERS SAILING** (Celestine) (8+) *Sailing*

Our program emphasizes SAILING! Each student will be on the water the very first lesson, with the instructor alongside in a coach boat. Students will learn how to purposely capsize their boat, and then recover their boat, and bail the water out. This is consistently the most popular lesson in the program. Tacking (zigzagging left and right towards the direction of the wind), is the first sailing skill to learn. There are 5 steps to executing a good tack. When the students have learned to sail upwind, they learn how to sail downwind. What goes up, must come down. Gybing involves turning the boat left and right with the wind coming from behind.

In the beginning, students will be on the water 1 on 1 with the instructor. As the class progresses, more students, each in their boat, will sail. The "sailing pizza" will teach the students the different "points of sail". Don't sail into the anchovies! Students will learn how to, and be responsible for, rigging and derigging their boats. Learning knots, the names of the parts of a boat and rigging, and the names of the parts of a sail are just part of the fun.

We begin by sailing only in the finger in front of our dock. As the students progress, we sail in the basin, then in the main channel. When we can sail upwind across the main channel to the gas dock (where the store sells ice cream), and then downwind back to the dock, we have really accomplished something. Students learn to work together to make rigging and sailing easier. When the wind gets too high, we often take a tour of the marina using one of the coach boats. Our priorities are, in the following order: Safety, Fun, Education.

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### **BEGINNING 2D GAME DESIGN WITH SCRATCH** (Digital Dragon) (8-10) *Programming*

This class will offer an introduction to video game design and programming by making simple Arcade games using the Scratch programming platform. Students will learn to control characters through an environment based on rules of their own creation. Creating their own characters and environments, students will also design their own levels. Typical games include customized 2D arcade and side-scrolling games.

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### **BIOMES OF THE WORLD** (Linda) (8-11) *Science*

Students discover Earth's terrestrial ecosystems as we explore the climate, energy cycles, and adaptations of flora and fauna for each of the major biomes. In addition to exploring the amazing biodiversity of our planet, learning why it is important and discussing the complexities of preserving it, this class will also introduce and reinforce research skills in the exciting framework of creating a giant interactive scrapbook with pop ups, pockets, maps and

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illustrations.

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### **BOARD GAMES AND OPEN CENTER** (Scarlett) (5+) *Fun & Games*

Description of this class is on its way! Please check back soon.

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### **BOOK EXPLORERS: THE HOUSE ON THE CERULEAN SEA** (Liz) (9-11) *Literature, History*

There is magic in the world, and not everyone is happy about it. In *House on the Cerulean Sea* we enter a world where magical beings such as dwarves, fairies, and even were-pomeranians exist. But as children many of them are forced to live in orphanages because the public is not exactly thrilled about their magical brethren. And it is the job of the Department in Charge Of Magical Youth, and one particular caseworker, Linus, to keep them safe. When Linus is sent to a remote island to investigate a group of magical youths and their caretaker he is thrust into a whole new world. Linus will learn to let go of his prejudices to look beyond who he believes people to be and see them for their true selves. Students will read the book out of class and come ready to discuss and share ideas. We will look at the myths that inspired the magical children as well as some of the (sometimes sad) historical events that have influenced the novel.

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### **BUGS: BONELESS WONDERS** (Linda) (5-10) *Science*

This class will explore the many boneless wonders that crawl on dry land. We will seek for where they fit on the tree of life and analyze the many critical jobs they fill in the energy cycle of an ecosystem. Arthropods are the most successful group of animals on the planet and their ability to adapt to even the most extreme conditions on Earth results in an amazing variety from the stunningly beautiful to the gross and bizarre. Through art, experimentation and research we will uncover their beauty!

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### **CERAMIC ARTS** (Lisa) (5-10) *Art*

Clay has an inherently calming nature and a forgiving quality that allows us to be fearless in creativity. That's why ceramics is such a joy to experience! This semester we will expand on the basic hand-building techniques that we've learned, while adding some new surprises to the mix with brilliant crystallized glazes, botanical impressions and the Japanese method of Nerikomi to name a few. If you're new to clay, no problem! You'll easily fit right in on day one without missing a beat. Roll up your sleeves and let's have some FUN!

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### **CERAMICS** (Linda) (10+) *Art*

The art of pottery has been around since 30,000 BCE. It can be functional, sculptural, and even, at its best, both. Kids will learn the basic clay building techniques of coiling, pinching, and slab building and combine them to create their own functional works of art. We will play with texture and three-dimensional form as well as experimenting with glazed surface decoration.

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### **COMMUNITY EVENTS** (Chie) (5+)

Would you like to join us? We will find great happenings for families and friends to come together during the month and create a space for them to share photos and ideas. With such an exciting city full of culture, let's not miss out on these moments with each other.

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### **CREATIVE JOURNAL: A PLACE OF INSPIRATION** (Trista) (8+)

Description of this class is on its way! Please check back soon.

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### **CRUDE CHEMISTS** (Linda) (11+) *Science*

We are made of chemicals. Everything in the universe is made of chemicals. They are the air we breathe, the food we eat, and the earth we stand on. Chemistry is a central science that is intimately related to all other fields of science. In this course we will be focusing on the structure of the atom, properties of elements and compounds, organization of the periodic table, how atoms bond to form molecules, and types of chemical reactions.

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### **DEEP DIVERS MATH** (Joe) (10+) *Math*

#### BY RECOMMENDATION ONLY

Deep Divers is an upper elementary through early middle school (grades 5, 6, 7) standards-based math class. It focuses on building a thorough understanding of - and competency in working with - multiplication, division, fractions, ratios, percentages, and decimals. The class will include both group and individual activities. Students will be presented with core concepts and will be given opportunities to practice and excel at their own paces. Homework will be optional - provided through the Google Classroom, but completed at the discretion of each family. Deep Divers Math is offered multiple times each week and can be taken any number of those times.

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### **DEEP DIVING DISNEY** (Josh) (8+) *Social Studies*

Disney? What? I know some of you might be thinking that you're way too cool for Disney... even if deep down you're just waiting for another opportunity to belt "let it go" at the top of your lungs. Well, whether you're an open Disney fan, you keep it a secret, or maybe you don't even like Disney, this class will have something for you. The truth is, Disney isn't just whimsical stories of sunshine and rainbows, many classic Disney stories have some very dark origins, and the company itself has a fascinating and complicated history that might surprise you. In this class, we are going to dive into all aspects of Disney, analyzing some of the stories, learning about its founder, and understanding its reach in the world around us. Come and witness the true power of the mouse!

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### **DIGITAL ART** (Digital Dragon) (8+)

Students will understand the fundamentals of Digital Art and Design by using image editing, and digital painting techniques to create Animation and Digital Media! Students will leave with an understanding of Digital Design tools for a wide variety of visual goals. Potential projects can include pixel animations, movie posters, landscape illustrations, and 3D models.

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### **DIVE INTO NON-FICTION** (Liz) (7+) *Literature*

This class will focus on the art of reading, understanding and connecting to various forms of nonfiction writing. Topics will be as varied as the news; ensuring learners engage with a wide range of subjects and gain confidence in discussing age appropriate issues and expressing their opinions based on unbiased factual evidence. Articles on science, history, geography, sport, current affairs, and even entertainment will lead to our discovery! Jump on in and read all about it!

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### **DROP THE MIC: GLEE CLUB** (Shirley) (5+) *Singing*

This is a place where talented students can find strength and acceptance in their voice. Every week we will be singing songs from different artists we choose in class. It will relate to a weekly life lesson and how you feel in that moment. I want to see the music and passion come out when the kids are singing because emotions are so important to let out. Can't wait to drop the mic!

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### **DUNGEONS AND DRAGONS: BUILD YOUR OWN ADVENTURE** (Josh) (11+) *Creative Arts*

Dungeons & Dragons is back in a brand new way! For those of you who don't know, Dungeons & Dragons is a fantasy role-playing game, using nothing more than a pen, paper, dice, and imagination. You play as a character with special abilities, participating as a member of a team as you go on quests around the world, slaying monsters and saving the innocent, or the opposite if your character is so inclined! In this class, students will have the opportunity to lead their own adventures! At the beginning of the semester, students will learn how to create the best possible adventure they can, known as a "campaign". Students will then alternate throughout the semester, given a couple of classes each to lead their campaign as the dungeon master! It's going to be a great experience so don't miss it.

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### **EARTH SCIENCE FIELD STUDIES** (Nathan) (8+) *Science*

#### **OUTDOOR LEARNING DAY ONLY**

Let's head out into the field and do some investigating and research! In this class we will open our eyes out in the natural world and really pay attention to our surroundings. Did you know that some of the rocks we see out on the trails are billions of years old? That ancient rivers carved many of the pathways we walk? That people lived in these local mountains for thousands of years before we arrived? Lucky for us, the evidence is all around to answer these questions! This class will cover plants and animals, human civilizations, geology, and more as we dig deep into our natural surroundings!

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### **EN PLEIN AIRE: DRAWING AND PAINTING OUTDOORS** (Trista) (8+)

We're taking our drawing class outside! Let's explore freestyle drawing and painting in various natural settings: the beach, trees, cityscapes. Put our inhibitions and fear aside, and see what we can do in an hour of fresh air.

The masters had it right – there's no reason to be stuck inside a studio all day when nature and fresh air await outside! Plein Air, which translates to "open air", was a key component of the French impressionist movement, with everyone from Claude Monet to Pierre August Renoire getting in – or out! – on the action. In more recent times, artists like Winslow Homer, John Singer Sargent, and Georgia O'Keefe produced cherished works of art working in the great outdoors. Interestingly, it was the invention of tubed paint and boxed easels that made outdoor painting possible. Prior to that, artists needed to be inside to grind and mix their paints.

This Plein Air Class is designed for artists who want to learn more advanced techniques, skills, and acquire a thorough understanding of how to paint en plein air like a Master. In this class we will look at concepts through different methods of seeing, applying paint and we will focus on completing all the paintings with Alla Prima painting methods with the goal of signing your paintings on location. Alla prima is an Italian phrase that means 'at first attempt'. It refers to a wet-on-wet approach whereby wet paint is applied to previous layers of still-wet paint, often in a single sitting. Over the years, the technique has been adopted and adapted by artists from Van Gogh to Velázquez. The focus is on understanding the theoretical and practical principles of painting.

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### **EXCURSIONS** (Jessie & Trista) (12+)

#### **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, 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.

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### **FARM TO TABLE - COOKING WITH CHIE** (Chie & Talia) (8-10) *Science, Cooking*

We will be spending a great deal of time at the farmers market shopping and building relationships. Learning how far they drive, where their farm is located and what changes have they seen over the years. Then we will get to cooking! Lots of raw vegan nutritionally filled beautiful food!!! The goal is that every student comes away knowing that it's deeply important to remember that not only is food life, but that it's about the life that is in the food we consume. This is a vegetarian class.

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### **FOR THE LOVE OF SPANISH - FOR BUILDERS AND DOERS** (Scarlett) (5-10) *Foreign Language*

Por el amor de español. Come with us on a building adventure! Lets build and expand on our Spanish vocabulary with incredible projects, fun class activities, and games. But we're not just building, we're doing it right with music, food, and so much more!

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### **FORENSIC ANTHROPOLOGY** (Trista) (8+)

Each class will be tailored by age.

In this class, we will learn how forensic anthropologists and bioarchaeologists use the human skeleton to learn about people's lives and deaths. This will involve reading forensic case studies and research articles from archaeological and forensic journals, and applying this knowledge to investigate similar cases. By the end of the course, students should be able to analyze a skeleton for demographic characteristics, pathology, and trauma, and present their evidence to the class. They will additionally be able to read and interpret forensic and archaeological cases involving human skeletal remains and apply these in hands-on situations. We will study physiology.

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### **GAME ON! SPORTS & GAMES** (Rashad) (8-10) *Physical Education*

Let's get out in the field and play some games! Students will play soccer, baseball, flag football, capture the flag, and a variety of other games that will get their blood pumping and provide that perfect break from the classroom. This class focuses on physical activity, health, sportsmanship, fun, and playing within the rules!

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### **GEOMETRY** (Joe) (12+) *Math*

#### **BY RECOMMENDATION ONLY**

Geometry continues sequentially on the heels of Algebra 1. So any students who successfully completed Algebra last year will want to follow up with Geometry. The curriculum will follow the Khan Academy course as outlined here:

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<https://www.khanacademy.org/math/geometry>. The Khan course is challenging, but should nevertheless allow us some extra time to further explore geometric proofs and constructions on our own during the second half of the spring semester. There will be weekly homework assignments to be completed online via the Khan Academy website. Additional materials will be available via the Google Classroom. I encourage students to sign up for at least one hour of Advanced Math each week, as a supplement to this course.

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**GLOBAL GARDENING AND EARTHY CREATIONS** (Scarlett) (8+) *Life Science, Horticulture*

Have you ever wondered how the earth creates the fruits and veggies we put in our bodies? Learn how to grow your own little garden and to care for ALL of earth's creations. In this class we're learning how to properly care for the earth's most precious creations along with how to grow our minds to ground ourselves daily.

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**GLOBAL HISTORY THROUGH TIMELINES** (Liz) (8+) *History*

History is a big topic and sometimes it can be tough to get things all straight in our brains. That is why Liz's timelines of history are not only going to help organize history but it is going to bring it to life with a giant timeline across her wall. As a class we will be creating a group timeline that covers some of the big historical events (think rise and fall of empires) and spread it across the felt wall. Each student will then select a historical time period such as the Renaissance or historical topic like communication or transportation or female leaders and create their own timelines to go along with our group one. Students will be able to see that at the same time.

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**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.

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**HEALTHY MIND AND BODY** (Scarlett) (5-10) *Health*

It's all about the body positivity over on the right side of the brain. Wait there is a left side too? Together we learn about the brain and what fuels it. Healthy Mind = Healthy Body. We explore health from a diverse care free standpoint and not a one size fits all standards. Together we'll explore different points of views of health through skill building crafts, important mini lessons, and friendship building games.

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**HIGH FLYERS MATH** (Joe) (8-10) *Math***BY RECOMMENDATION ONLY**

High Flyers Math is a middle elementary (grades 3 and 4) standards-based math class. It focuses on building understanding and competency with multiplication and division and an introduction to fractions, percentages, and decimals. The class will include both group and individual activities. Students will be presented with core concepts and will be given opportunities to practice and excel at their own paces. Supplemental at-home practice materials will be provided through the Google Classroom. These will be optional - completed at the discretion of each family.

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**HIKER'S CLUB ADVENTURERS** (Nathan & Josh) (11+) *Physical Education, Earth Science***OUTDOOR LEARNING DAY ONLY**

In this class we explore some of southern California's most beautiful landscapes!. We will experience our rich natural

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surroundings both in and out of the city. Students will hike, climb, swim, investigate, explore, and challenge themselves to learn about the history, geological diversity, and abundant flora and fauna right around our community! This semester we will be visiting some new and exciting places to help us broaden our already wide selection of wondrous places to explore!

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**HIKER'S CLUB EXPLORERS** (Nathan & Scarlett) (8-10) *Physical Education, Earth Science*

**OUTDOOR LEARNING DAY ONLY**

In this class we explore some of southern California's most beautiful landscapes! We will experience our rich natural surroundings both in and out of the city. Students will hike, climb, swim, investigate, explore, and challenge themselves to learn about the history, geological diversity, and abundant flora and fauna right around our community! This semester we will be visiting some new and exciting places to help us broaden our already wide selection of wondrous places to explore!

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**HISTORY DNA** (Joe) (9+) *History*

History DNA is a game that gives students an opportunity to learn about fascinating and influential people from the past. It's played with an ever-growing deck of cards. Each card depicts a significant individual from history. The game involves quiz questions about these historical figures, the things they did and the events they took part in. Students compete to win cards from each other by taking turns to show what they've learned. Each class will begin with a brief quiz which will introduce new material and review previously learned information. Additionally there will be practice materials available via the google classroom and quizlet.

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**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 escape 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 traveled, 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 games and special effects zombie makeup play.

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**ICE AGE: THE PLEISTOCENE** (Linda) (8+) *Science*

The glaciers of the ice ages came and went during the Pleistocene. The Earth was home to megafauna such as woolly

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mammoths, giant land sloths, and the fearsome sabertooth tiger. But, perhaps the most intriguing mammal to evolve during this period was the hominid. Not just one species of people but multiple species existing simultaneously, interacting and sharing the planet's resources. So what caused the shifts in climate during the ice ages? What happened to the other species of people and the giant land mammals? And what was life like during the later Pleistocene?

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**INDEPENDENT WORK HOUR** (Nathan) (11+) *Independent Study*

This class provides support for kids who are working on individualized homework. Whether they are working on online programs such as Khan Academy, a store-bought math workbook, an English paper, or other topics.

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**JOURNEY THROUGH JAPAN** (Kimber) (8+) *Geography, Culture, Art, History*

Students in this unique culture, art and geography class will journey to Japan, an amazing island nation that many consider to be one of the most beautiful places in the world. Through exciting art projects, fun activities and interesting visual presentations, students will discover the vibrant culture, traditions, unique art and daily life. Students will also explore the fascinating ancient history and culture of castles, temples and shrines and see how Japan has mastered the balance of contrasts, the blend of old with the new, modern day world of electronics and skyscrapers... where neon lights pulse and shine on century-old temples, monks walk alongside anime cosplayers, the bullet train zooms past Mount Fuji- and urbanized cities are nestled next to nature. With over two thirds of Japan covered by forested mountains, hills, volcanoes and waterfalls, students will also learn all about the variety of habitats and the creatures who live there. From centuries-old traditions to interesting modern day trends, projects include cherry blossom paintings, Kawaii cute crafts, anime art, Hokusai inspired woodblock prints, shibori tie dye, origami, Koinobori, Kokeshi dolls, cooking projects, and a variety of other amazing art projects and activities.

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**JOURNEYS** (Scarlett & Celestine) (8-10) *Horticulture*

Let's take it back to the beginning shall we? We're natural hunters and gathers. As we've evolved we've learned important traits and have contributed them to our communities which is what brings us nutritious foods. As a class WE take a journey in our own communities and learn how our food makes it to our table and how we can become contributors for the future. WAIT, dare we take this JOURNEY any farther? Join along for the ride and find out. You won't want to miss it.

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**LAB DABLERS: ISAAC NEWTON'S LAWS OF MOTION** (Nathan) (8-10) *Science*

We don't know if an apple really fell on Sir Isaac Newton's head while he slept next to an apple tree but we do know he was the first and best person in history to investigate and study gravity! When it comes to science, that is just the tip of the iceberg on what Newton worked on in his lifetime. Not a bad guy to help me pass down some knowledge! This will be an experiment and project based class where students will have an opportunity to explore the foundations of physics. We will do everything from building airplanes and dropping eggs to creating a "Laws of Motion" activity chart! We will also be applying the scientific method across the board to help guide through the process of learning from these amazing practices!

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**LAB DABLERS: ROCKS AND MINERALS** (Nathan) (5-10) *Earth Science*

From the Gold Rush to the Rock cycle, this class will dive into the history, composition, and future of the third rock

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from the sun! Students will create art projects, perform experiments, and even get out for a little field work. We will trace the evolution of our planet from its creation over four billion years ago to the current, life inhabiting state we find it in now. Students will create rock collections and be introduced to some of the most unique and beautiful minerals produced by natural forces on this earth.

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### **THE LAYERS AND REACH OF SOCIAL MEDIA** (Josh) (10+) *Social Studies*

Social Media... something most of you are probably quite familiar with at this point, whether through your parents & teachers or perhaps your own experiences; but what exactly is social media? What is it about putting a part of ourselves online that's open to critique and connection that is so important to us? How does it fulfill some of our basic human needs and at the same time deprive us of others? What sort of history does it come from, what path lies ahead, and where should I stand for all of it? All of these questions & ideas will be heavily explored in this class, as we dive into the complex web of Social Media and attempt to break it all down.

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### **LITERARY DIVES: ENDER'S GAME & SPEAKER FOR THE DEAD** (Josh) (11+) *Literature, Social Studies*

I'm very excited about this semester's literary choices - two fantastic science fiction novels that are both so much more than science fiction. As always, we will read these stories in & out of class, engage in classroom discussions, answer questions, and work on plenty of fun projects both solo and as a group. You're not going to want to miss this!

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### **LOVE NOTES: HEALTHY RELATIONSHIPS AND SEX EDUCATION** (Celestine) (12+)

Do you want to elevate your relationships, get to know yourself, and achieve your goals? Love Notes might be the class for you this fall. Join us and learn:

- How to better communicate
- How to stand up for yourself
- How to recognize red flags and warning signs
- How to get along better with your boyfriend/girlfriend, parents, family, and peers
- How to achieve your education, employment, and relationship goals

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### **MAGICAL MINIATURISTS** (Kimber) (5+) *Art, Art History*

Imagine the world through the eyes of a person just four inches tall! Students in this creative class will delve into this wonderful whimsical world- and create mini magic! For as long as humans have made art, they've experimented on a tiny scale. Ancient, very small depictions of animals have been discovered on the walls of Indonesian caves, and in 16th-century England, Elizabethans carried tiny, painted portraits of loved ones in their pockets. Today, artists continue to explore the possibilities of the miniature and triumph in a process that requires imagination, concentration, creativity and patience. Putting themselves in the shoes of Ferngully fairies, The Borrowers, tiny magical beings and other mini adventurers, students will flex their imaginations- and their fine motor skills. Using a variety of art materials, with an emphasis on recycled items, students will then create a magical world of delightful diminutive dwellings, complete with all the trimmings. Exciting art and projects include miniature art museum pieces, champagne cork creations, complete mini houses and furnishings, clay pot fairy houses, gnome home lanterns, tiny treasures, miniature character puppets- and more. Let the adventures begin!

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**MASTER OF THE TABLE** (Josh) (9+) *Strategy & Critical Analysis*

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.

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**MATH MARVELS: MONEY, TIME, AND MEASUREMENT** (Nathan) (8-10) *Math*

In this class we are going to focus on money, time, and measurement. Students will get "paid" for performing tasks in class and create a class store that will allow them to rent goods necessary for class assignments. They will learn how to save and track their expenses while navigating purchases and making exact change. Students will explore the value and practical use of money in our world with our class model for these processes. We will also dive into the world of time and time management. They will have set time windows to complete tasks, estimate how much time they will need and look closely at the role time plays in their lives. Lastly, our class will study measurement. Students will literally measure and label everything in the room and even plan a road trip where they will attempt to set a schedule and hit time goals along the way!

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**MATH MAVERICKS** (Semester 1 of 2) (Joe) (7-9) *Math***BY RECOMMENDATION ONLY**

Math Mavericks is an early elementary (grades 1 and 2) standards-based math class. It focuses on building understanding and competency with addition, subtraction, place-value, doubling, tripling, and other essential foundational math skills and concepts. The class will include both group and individual activities. Students will be presented with core concepts and will be given opportunities to practice and excel at their own paces. Supplemental at-home practice materials will be provided through the Google Classroom. These will be optional - completed at the discretion of each family.

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**MENTAL MATH 1** (Joe) (6-8) *Math, Problem Solving*

This class focuses on developing students' analytic and sequential thinking through mental computation, memorization and gameplay. Mental Math 1 focuses primarily on addition, subtraction, doubling, and some preliminary multiplication. Students will learn basic methods of mental calculation. Students will practice holding numbers in their heads while doing two, three-step problems. 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.

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**MENTAL MATH 2** (Joe) (8-10) *Math, Problem Solving***BY RECOMMENDATION ONLY**

This class focuses on developing students' analytic and sequential thinking through mental computation and memorization. We'll focus primarily on arithmetical operations - building on skills developed in Mental Math 1. Students will learn methods, tactics, and techniques for two-digit by two-digit multiplication, and also learn about squaring, factoring, division, and working with fractions. Students will practice holding numbers in their heads while doing two, three and four-step problems. Students will learn to parse problems and look for patterns to help them derive algorithmic methods and strategies for solution. Each class period will start with a warm up exercise

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presenting a new concept, application or technique and then we'll practice our skills through gameplay.

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**MENTAL MATH 3** (Joe) (11+) *Math***BY RECOMMENDATION ONLY**

This class focuses on developing students' analytic and sequential thinking through mental computation and memorization. We'll focus primarily on arithmetical operations. Students will continue practice with the double digit multiplication methods they learned in Mental Math 2. They will learn new methods, tactics, and techniques for performing other mental calculations involving multiplication, squaring, factoring, division, and fractions. We'll practice strategizing to find the simplest method for a given circumstance. Students will parse problems and look for patterns to help them derive new and better algorithmic methods and strategies for solutions. 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.

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**MUSIC MESSENGERS** (Celestine) (8+) *Music, Culture*

Come join us for a music class with a little emphasis on black culture and history. In this class we'll learn about hip hop music and practice songwriting, engineering, recording and performance. We'll spend a quarter of each session exploring some major historical events that charted the course for African Americans in our country. Then, we'll spend the next 3/4 of class using one of the most influential medias of communication (hip hop) to express our learning.

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**MYTHOLOGY IN POP CULTURE** (Liz) (8+) *Literature, History*

Mythology has been the basis for so many stories we have told throughout the ages. Beginning with heroes like Gilgamesh, Odysseus, and Hunahpu up to our modern heroes of Wonder Woman, Frodo Baggins, and the Mandalorian we see how the hero's journey has been giving structure to our stories. But that is not where mythology's influence ends in our lives. From movies to songs to logos, myths are playing a role in our modern lives. In this class students will explore various world myths, what role they played in the past, and what influence they are having on us today. In individual projects they will look at their own popular favorites and dig deep to see how myths are influencing them.

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**NATURE AND LANDSCAPE ART** (Kimber) (8+) *Art, Art History, Environment Protection*

Since ancient times, artists have listened to the call of nature and taken inspiration from the magical wilderness of earth. In this fun and unique art class, students will travel across diverse, beautiful habitats and explore ways to capture the amazing essence of our world. Students will be introduced to a variety of nature, landscape and earth art, from contemporary artists and environmental land artists to famous artists throughout history... Gustav Klimt, Georgia O'Keefe, David Hockney, Henri Rousseau, Andy Goldworthy, Jon Forsman... so many genius inspirations. In addition to paints, inks, modeling pastes and clay, students will also use elements of the great outdoors like wild flowers, rocks, shells, leaves, sand, feathers, seeds and cones. Given the opportunity to experiment with different art mediums as well as explore three-dimensional and textural art, students will then create their own natural beauties. Imagine glassy blue oceans, cascading waterfalls, rolling patchwork fields or a forest of prickly pine trees. Adventuring with a variety of techniques, students will learn about the elements of shapes, lines and textures- and discover the fundamentals of composition, layering and creating focal points. Nature inspired projects include "Tree

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of Life” multi-media work, habitat mosaics, collage landscapes, flower and jungle paintings, cyanotypes, natural element creations and more.

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**NOVEL TEA: THE ODYSSEY** (Liz) (11+) *Literature*

The story of the Odyssey is one of the oldest stories. By exploring the various translations and adaptations of this epic story students will dive deep into the themes and history. We will shine new eyes on these ancient stories to see that the past can tell us about the world today. Students will read outside of class and come ready to have some epic discussions.

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**THE ODYSSEY THROUGH GRAPHIC NOVELS** (Liz) (9-11) *Literature, History*

Ever have a car ride that felt like it would never end? If you have then you can identify with Odysseus who wandered around Greece for 10 years before he finally made it home. Along the way his trip was obstructed by witches that turn people into animals, a giant whirlpool that swallows ships, and Sirens that lure sailors to a watery doom. In this class we will learn the story of Odysseus and his determination to get home after the Trojan War. We will look at how different graphic artists have interpreted these tales of monsters and myth. From the comical to the serious to the animated we will explore them all and then create our own.

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**PHANTASMAGORICAL: WEIRD, WILD AND WONDERFUL SURREALISM** (Kimber) (8+) *Art, Art History*

Welcome to the fun and crazy artistic world of dreams, imagination and the subconscious! Can you paint something that seems impossible? Can you draw what you see in your dreams? Can you trick the eye and create something that's actually two different things- or twenty? Students in this unique and zany art class will dive into the wild world of Surrealism, fantastic imagery, incongruous juxtapositions, Groove Art and Op Art. While exploring dreamlike scenes, from melting clocks to weird landscapes, students will discover how artists in the first few decades of the 20th Century started to find new ways to interpret everything around them and create art pieces that depicted both the conscious and subconscious minds. Students will travel through several art movements up to the Op Art Movement of the 60's where artists continued to find new ways to redefine visual reality with illusions and mind-bending images. As students experiment and play with a variety of cool art materials, they will be challenged to stretch, see the world through a different lens, warp reality- and then, create impossible objects, strange scenes and optical illusions. I can't wait to see where our dreams and imagination take us!

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**POETS AND MUSICIANS AT THE PARK** (Josh) (11+) *Writing, Public Speaking, Performing Arts*

Inside every one of us lies a poet, a storyteller, and a music lover. The part of ourselves that sees the world not just in facts and logic but in the beauty and sorrow underneath. In this class, we will have the opportunity to write our own poems, songs, raps, whatever written expression best fits your spirit. We will practice reading and performing for each other, supporting and bolstering one another to feel comfortable expressing these parts of ourselves. For this hour, we will attempt to break past the nonsense and let our genuine selves come forward. Remember, "Not all who wander are lost."

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

**BY RECOMMENDATION ONLY**

This is a very thorough Pre-algebra course. The curriculum will follow the Khan Academy course as outlined here:

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<https://www.khanacademy.org/math/pre-algebra>. For most students, Pre-algebra is their first exposure to abstract concepts involved with linear equations and functions - which can be both exciting and challenging. **There will be weekly homework assignments to be completed online via the Khan Academy website.** It will be important for students to keep up on these assignments. I encourage students to sign up for at least one hour of Deep Divers each week, as a supplement to this course.

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#### **QUEST** (Trista & Liz) (11+)

**IS FOOD A HUMAN RIGHT? Shortening the supply chain has never been more important! Why isn't food getting to all people? Why are there food deserts? Why doesn't The Realm have a sustainable school garden for snacks?** We started with these questions when planning Quest and the journey fell into place immediately. Turning to our local community and city first, allows each group to then look nationally and further globally into food production, supply, and sustainability. There will be a lot of field trips this year; traveling to farms, school gardens, and urban gardens, but we will be looking at alternative food sources... Insects, anyone? Each group will be growing food at The Realm for community food consumption, participating in weekly challenges, service projects and researching individual and collaborative projects. This year Visionaries, Journeys and Quest will work independently, as well as together, to create a cohesive Realm experience, ending with our own Food Experience at the end of the semester. Come with us on an adventure into the Quest for Food!

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#### **READING EXPLORATION: EXPRESSION & UNDERSTANDING** (Jessie) (7-9) *Literacy*

In this class, we will use diverse, fun and fresh excerpts from a variety of elevated sources that are read aloud, annotated and discussed in class, and thus developing and honing the student's ability to support substantial claims on author's purpose, theme, literary devices and word choice. After mapping out a plan, relying on notes, the students will focus on writing thoughtful, well constructed responses. This class includes: vocabulary, grammar, literary devices and journaling. Read It - Think About It - Talk About It - Write About It.

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#### **SELF CARE: HEALTHY HABIT FORMING STRATEGIES** (Scarlett) (11+) *Social Studies*

We are becoming scientists of our own bodies in this class. We will experiment what 28 days of consistent self care can do for our body, mind and soul. We're finding creative and individualized ways to improve our mental, physical, and emotional health. That could mean we slow things down on the yoga mat or we race to the park for some healthy competitions. The healthiest version of you is likely to win the battle against any unexpected feelings that are guaranteed to come and go.

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#### **A SEWING CIRCLE: HAND SEWING, WEAVING, CROCHETING, AND MORE!** (Linda) (8+) *Art*

Description of this class is on its way! Please check back soon.

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#### **SHAKESPEARE AND YE OLDE ENGLAND** (Kimber) (9+) *Literature, Theater, History*

Ready to take the ShakesFear out of Shakespeare? In this fun, unique class, students will travel back to the Elizabethan era to explore the life and times, and the witty writings of William Shakespeare. While investigating Shakespeare the man, and Shakespeare the writer- and why his plays are still so beloved, we will play games, act out key scenes- and dive into and dissect Shakespeare's timeless stories about the human condition. Students will discover that this brilliant playwright offered up everything; Romance, comedy, murder, blood, witches, ghosts, fools

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and fairies. There were even sword fights, parties, dancing, crazy people, royalty, women vs. men, men vs. women, more crazy people... and everything in between. In a fun and creative way, students will read ye olde English and through Shakespeare's clever use of language, explore universal themes of love, betrayal, revenge, power, justice, miracles, second chances, and so much more. What does it all mean? And literally... exactly what do all of his words mean? That's in addition to the 1700 or so new words this genius made up himself. What if good ol' Will were alive today? How would he tell his stories now? Students will be challenged to analyze a variety of different scenes and compare them to alternative versions and modern day renditions- and then recreate their own. Shakespearean rap? Puppet Show? Interpretive dance? Plots with a twist? Hands-on projects include dioramas, character puppets, Romeo and Juliet masquerade masks, Elizabethan crafts, costume pieces and play props- and of course, mini-performances. All the worlds a stage!

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**A SLICE OF AMERICAN HISTORY: THE 60'S & 70'S** (Kimber) (8+) *American History, Culture, Current Events*

Through fun games, interesting visual presentations and "groovy" art and hands-on projects, students will dive into the fascinating history and explore the impact of many significant events of the 1960s and 1970's. Pop culture, politics and beyond... This unique history class starts with peace, love, free speech movements, hippies and flower children, as well as counterculture, anti-war demonstrations and civil rights marches. Students will examine subjects as diverse as the war in Vietnam, civil rights and society shifts. Students will also explore the impact of the exceptional ways that people expressed their views- through "revolution", riots, demonstrations and marches, as well as through art, literature, music and even fashion. From tie-dye, long hair and rock and roll- to bell bottoms and the rise of disco, students will continue to travel through time into the next decade and explore how the world continues to change dramatically. Students will examine how the 1970's was a fascinating era when women's rights, gay rights, environment wake-up calls, economic struggle, and technological innovation, competed with the Watergate scandal, the energy crisis and the ongoing Vietnam War, all competing for the world's attention. The protest movements, cultural changes and cool creativity of these two decades will inspire students to make art activism posters, pop art and other statement pieces. Class projects will also include group challenges, jeopardy matches, timeline projects, tie dye, peace paintings, music lyric-poetry slams and other fun creative adventures. Exciting times!

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**SPORTS AND FITNESS** (Celestine) (5+) *Physical Education*

Join us for a workout using body weight and learning proper workout techniques to prevent injuries. Incorporated will also be soccer technical skills work, speed and agility and endurance training. Join our high level club soccer coach who is passionate about workout and soccer to learn one or two new skills.

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**TERRAFORMING PLANETS** (Linda) (8+) *Science*

If you can imagine it you can achieve it... or can you? Science fiction writers have been imagining the terraforming of other planets as early as the mid 20th century. Billionaires today are dedicating their lives and wealth in a space race to colonize Mars. But what would it really take to create a habitable environment on another planet or moon, what is a realistic timeline, and what resources would it take? In this class we will research various possibilities for future colonies and discuss the logistics involved. Students will also examine the various ethical considerations associated with colonization (with a look back in history at what forms human colonization has taken and the consequences) Who would the colonizers be and who decides? What would the new society be like? The culminating project is a

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model city demonstrating the knowledge they have gathered including descriptions of how the new colony will be governed. (note: students will engage in independent research and writing)

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**THAT'S DEBATABLE** (Josh) (11+) *Writing, Social Studies, Public Speaking*

Very little in this world is absolute, values come and go and change throughout societies. Problems can be extraordinarily multi-faceted and challenging to solve, and what's popular isn't always right. In this class, we are going to explore a variety of topics ranging from ethical to political to philosophical, and in doing so we will develop well-thought-out arguments and engage in civil debate. Whether you want to become a stronger critical thinker, increase your knowledge on various complicated issues, or just love to argue, this class is for you!

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**THINKING ART** (Linda) (11+) *Art*

Taking our inspiration from the subconscious explorations of surrealism and developing skills using math, science and our powers of observation, we will endeavor to create art that exercises the brain of the artist as well as that of the viewer. Art can be thought provoking whether it is in the mechanics of creating it, about the subject of the art itself, or by forcing us to ask questions about the world it represents. We will play with optical illusions, extreme realism, the intersection of geometry and design, and perspective while also spelunking the depths of our imaginations.

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**TIMELESS ESSAY: RACHEL CARSON & WENDELL BERRY** (Jessie) (11+) *Writing*

This semester, we will dive into the essays and poems of the two brilliant American novelists, poets, essayists, environmental activists, and cultural critics, Rachel Carson and Wendell Berry. In this workshop, students will learn advanced techniques in writing both nonfiction essays, critiques and even poetry to expand on our understanding of the natural world. Students will be asked to continually persevere through writer's block and dig deep in the elaboration (commentary) portions of their paragraphs. The main goals are to establish cohesion and expand their elements of writing vocabulary, while developing their writing style and voice. By reading portions of essays by some of our writing heroes, students will be inspired to take their written expression to a whole new level!

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**TRIGONOMETRY** (Joe) (13+) *Math*

**BY RECOMMENDATION ONLY**

This course will follow the Khan curriculum as outlined here: <https://www.khanacademy.org/math/trigonometry>. This curriculum overlaps significantly with the Khan Academy Precalculus course here: <https://www.khanacademy.org/math/precalculus>. I believe that we'll get through the Trigonometry section with time to spare, which will allow us to begin partially exploring the precalculus material by sometime in the second semester. Students will also have an opportunity to stay in-practice on previously acquired skills.

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**A TRIP TO THE REDISCOVER CENTER: WOODWORKING EXPLORERS** (Celestine) (8-10)

Students learn the fundamentals of woodworking with hand and power tools, starting with shop safety and proper tool use. Lessons in tools and techniques are interspersed with project prompts and open build time, with projects growing over 2-4 week arcs. Skills lessons are presented as fun, memorable, age-appropriate activities. Second semester for returning students focuses on a series of multi-week project builds including functional items, vehicle models, figurative and abstract sculpture, and structural engineering challenges.

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### **THE WRITE THING** (Trista) (8+) *Writing*

This class is built in the belief that students become avid readers and engaged writers when they assume responsibility for becoming authors. At the end of the semester, the class will publish a book of the work written in class. By making student-run publishing a priority, the writer reaps the fruit of their labor and the response from readers creates a permanent reading/writing connection, transforming the way they view and appreciate language and literature.

Kwame Alexander is another author who believes in the economy of words, evoking powerful thoughts and images through poetry, especially narrative poetry. But in order to accomplish this, the writer must spend time thinking, annotating, discussing, and planning what and how they will write. This class, as part of our new Realm Literacy program, is part of our initiative to develop writers who can create and find the words to express unique individual thoughts, away from Google, Wikipedia, and easy “cut and paste” writing.

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### **WRITER’S ROOM: SCRIPTWRITING & TV PILOT** (Trista) (8+) *Writing*

This class will be run like an actual TV Writer’s room. It will be a collaborative writing process, learning to hit deadlines and rely on others to make theirs as well. There is nothing more magical than seeing the students working together with an end goal in mind. The TV writers room allows for students to shine and lead in areas they excel in, while learning from and deferring to others’ skills. The writers room uses notes, outlines, brainstorming, calendars, individual and group writing time to reach the studio’s deadlines with a finished script. In an atmosphere of fun, with a tangible product at the finish line, we will be learning to write more creatively and with more complexity. We will be looking into character arcs, following multiple plot points, creating vivid imagery and authentic dialogue, while hitting important writing skills, literary devices, and researching. Who knows, maybe next semester, in Film Production, we will have a show to produce!

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