

	5/6 AM	5/6 PM	7/8 AM	7/8 PM
Week One (7/8)	<i>Lower School Expedition: Fantastical Structures</i>			
	The Art of Writing and Making Books (Alegria Barclay) 101	Playing Politics (Lee Ryan Miller) 247	Playing Politics (Lee Miller) 247	The Art of Writing and Making Books (Alegria Barclay) 101
	Virtual Travel Through Latin America: Language, Culture and Cuisine (Veronica Guevara) 240	Writer' Workshop: Creating Memorable Characters (Jennifer Perry) 103	Writer' Workshop: Creating Memorable Character (Jennifer Perry) 103	Virtual Travel Through Latin America—Language, Culture and Cuisine (Veronica Guevara) 240

	<p>Introduction to Debate (Les Phillips)</p> <p>245</p>	<p>Art in Action: Architecture and Design (Reenie Charriere)</p> <p>117</p>	<p>Art in Action: Architecture and Design (Reenie Charriere)</p> <p>117</p>	<p>Introduction to Debate (Les Phillips)</p> <p>245</p>
<p>Week Two (7/15)</p>	<p><i>Lower School Expedition: Above and Below</i></p>			
	<p>Graphic Novels: Close Reading and Crafting Our Own (Alexa Hart)</p> <p>101</p>	<p>Obstacle-Bots (Christine Braun)</p> <p>112-113</p>	<p>Writer' Workshop: Nature Writing (Jennifer Perry)</p> <p>103</p>	<p>Art in Action: Site-Specific Installation Art (Reenie Charriere)</p> <p>117</p>
	<p>Art in Action: Site-Specific Installation Art (Reenie Charriere)</p> <p>117</p>	<p>Model United Nations (Lee Ryan Miller)</p> <p>247</p>	<p>Model United Nations (Lee Ryan Miller)</p> <p>247</p>	<p>Empathy and Literature: Close Reading Angie Thomas' <i>The Hate U Give</i> (Alexa Hart)</p>

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	Introduction to Music Production (Cody Alan) 245	Writer' Workshop: Nature Writing (Jennifer Perry) 103	Fun, Fabulous Robots (Christine Braun) 112-113	Introduction to Music Production (Cody Alan) 245
	<i>Upper School Parliamentary Debate Camp (Part One)</i> <i>(Samuel Timinsky and Les Philips)</i> 345-346			
Week Three (7/22)	<i>Lower School Expedition: Restaurant at the Edge of the Universe</i>			
	Art in Action: Everyday Handmade Clay Objects (Reenie Charriere) 117	Mock Trial (Lee Ryan Miller) 247	Astrophysics (Hunter Richards) 103	Empathy and Literature: Reading <i>All-American Boys</i> by Jason Reynolds and Brendan Kiely (Alexa Hart)

				101
	<p>Knot Theory: Using Textile Arts to Enhance Mathematical Explorations</p> <p>(Jana Comstock)</p> <p>112</p>	<p>Writer's Workshop: Science Fiction and the Art of Screenwriting</p> <p><i>(Judith Worrall)</i></p> <p>103</p>	<p>Mock Trial</p> <p>(Lee Ryan Miller)</p> <p>247</p>	<p>Art in Action: Everyday Handmade Clay Objects</p> <p>(Reenie Charriere)</p> <p>117</p>
	<p>Empathy and Literature: The Immigration Story</p> <p>(Alexa Hart)</p> <p>101</p>	<p>Logic Madness</p> <p>(Lissie McAlvey)</p> <p>245</p>	<p>Logic Madness</p> <p>(Lissie McAlvey)</p> <p>245</p>	<p>Knot Theory: Using Textile Arts to Enhance Mathematical Explorations</p> <p>(Jana Comstock)</p> <p>112</p>
<p><i>Upper School Parliamentary Debate Camp (Part Two)</i></p> <p><i>(Samuel Timinsky and Les Philips)</i></p> <p>345-346</p> <p><i>Interstellar Politics and Mutant Civil Rights: Science Fiction as Socio-Political Allegory (Part One)</i></p> <p><i>(Arta Khakpour and Brian Cropper)</i></p>				

	340-341			
Week Four (7/29)	<i>Lower School Expedition: Time Travel</i>			
	Virtual Travel Through Latin America: Around the World in Search of Tortillas <i>(Veronica Guevara)</i> 240	Playing Politics <i>(Lee Ryan Miller)</i> 247	Playing Politics (Lee Ryan Miller) 247	MicroFiction: The Art of Flash Fiction (Alexa Hart) 101
	MicroFiction: The Art of Flash Fiction (Alexa Hart) 101	Astrophysics <i>(Hunter Richards)</i> 112	Writer's Workshop: Science Fiction and the Art of Screenwriting <i>(Judith Worrall)</i> 112	Virtual Travel Through Latin America: Around the World in Search of Tortillas (Veronica Guevara) 240

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<p><i>Interstellar Politics and Mutant Civil Rights: Science Fiction as Socio-Political Allegory (Part Two)</i> (Arta Khakpour and Brian Cropper)</p> <p>345-346</p>				

Week One (July 8–12)

Grade 5–6 Classes:

The Art of Writing and Making Books (AM)

(Alegria Barclay)

Class Description:

Do you love books? Try making one! In this class, students will learn how to make a variety of different book structures and write poetry and prose to fill them. We will learn the basics of bookbinding from cutting, folding and sewing simple journals to more complex pop-up and accordion-style bindings. By the end of the week, students will have created several notebooks using a range of materials—including Japanese washi, recycled materials, handmade paper, and more! Each book will also incorporate a different writing prompt or skill that complements the kind of book you've created. This is a perfect class for crafters, poets, writers, and artists seeking to develop their creative skills and learn more about an ancient art. No prior experience is needed so join us for a fun and productive week!

Virtual Travel Through Latin America: Language, Culture and Cuisine (AM)

(Veronica Guevara)

Class Description:

Each day of class, we will 'visit' a Spanish-speaking country (Bolivia, Cuba, El Salvador, México, and Puerto Rico.) Campers will explore language and cultural context through poetry, reading, songs and film, culminating in a community celebration and sharing foods from the region. Campers should come prepared to learn some Spanish, explore the geography and culture of places where Spanish is spoken, and to jump in with your hands and taste buds as we try on some new cuisines. By the end of the week, you will have your passport stamped with five countries' entries armed with a newfound readiness to try new things.

Introduction to Debate (AM)

(Les Phillips)

Class Description:

Join us this summer for Introduction to Debate! This is the perfect course for students who are interested in current affairs and like to think and argue. The speaking and organization skills you will learn are central to all kinds of academic success. We will do both impromptu and prepared debates, culminating in a mini-tournament. The course will also feature guest appearances from members of Nueva's nationally ranked debate team.

Playing Politics (PM)

(Lee Ryan Miller)

Class Description:

Prepare to practice the art of politics in The Civic Mirror® political role-playing game. You will inhabit a country modeled after the US and will have the opportunity to manage a business, run for office, and serve on a jury. If someone sues you or charges you with a crime, you will be put on trial. You will have to find a way to keep the members of your family alive (provide them with food, shelter, medical care, etc.) while pursuing your "hidden agenda" (secret goals). You will work through the real-life challenges and trade-offs necessary to enact legislation in a country where people's goals are often in conflict.

Writer's Workshop: Creating Memorable Characters, Composing Unforgettable Scenes (PM)

(Jennifer Perry)

Class Description:

Join us for a writing intensive workshop where we will devote equal time to creating unique, memorable characters and to animating those characters through riveting, unforgettable monologues and dialogues. We will dig deep, devising back stories, motivations, and emotional landscapes for each character, then bring them to life through the spoken word. Come prepared to brainstorm and explore unconventional ways to create unique characters. By the end of the week,

we will use the creative writing workshop format to gather feedback and revise the monologues; finally we will celebrate by performing the monologues and dialogues. Students will work on laptops, so please bring a flash drive if you'd like to work more at home after camp.

Art in Action: Art and Architecture (PM)

(Reenie Charriere)

Class Description:

During our Art and Architecture class, campers will look at the infinite motivations to create architecture. We will draw and build sculptural models out of foam core, chopsticks and various other materials. Throughout the week, students will keep a sketchbook that captures their brainstorming and iterations. We will also look at and sketch the architecture around us at Bay Meadows – a neighborhood full of new and innovative architecture. Some of the architects we will be studying include: Frank Gehry, Zaha Hadid, De Meuron and Herzog, and Frank Lloyd Wright.

Grade 7–8 Classes:

Playing Politics (AM)

(Lee Ryan Miller)

Class Description:

Prepare to practice the art of politics in The Civic Mirror® political role-playing game. You will inhabit a country modeled after the US and will have the opportunity to manage a business, run for office, and serve on a jury. If someone sues you or charges you with a crime, you will be put on trial. You will have to find a way to keep the members of your family alive (provide them with food, shelter, medical care, etc.) while pursuing your "hidden agenda" (secret goals). You will work through the real-life challenges and trade-offs necessary to enact legislation in a country where people's goals are often in conflict.

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The Art of Writing and Making Books (PM)

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Class Description:

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journals to more complex pop-up and accordion-style bindings. By the end of the week, students will have created several notebooks using a range of materials—including Japanese washi, recycled materials, handmade paper, and more! Each book will also incorporate a different writing prompt or skill that complements the kind of book you've created. This is a perfect class for crafters, poets, writers, and artists seeking to develop their creative skills and learn more about an ancient art. No prior experience is needed so join us for a fun and productive week!

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(Veronica Guevara)

Class Description:

Each day of class, we will 'visit' a Spanish-speaking country (Bolivia, Cuba, El Salvador, México, and Puerto Rico.) Campers will explore language and cultural context through poetry, reading, songs and film, culminating in a community celebration and sharing foods from the region. Campers should come prepared to learn some Spanish, explore the geography and culture of places where Spanish is spoken, and to jump in with your hands and taste buds as we try on some new cuisines. By the end of the week, you will have your passport stamped with five countries' entries armed with a newfound readiness to try new things.

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(Les Phillips)

Class Description:

Join us this summer for our Debate Intensive! This is the perfect course for students who are interested in current affairs and like to think and argue – and the speaking and organization skills you learn are central to all kinds of academic success. We'll do both impromptu and prepared debates, culminating in a mini-tournament. The course will also feature guest appearances from members of Nueva's nationally ranked debate team.

Week Two (July 15–19)

Grade 5–6 Classes:

Graphic Novels: Close Reading and Crafting Our Own (AM)

(Alexa Hart)

Class Description:

Do you love comics? Do you love graphic novels? Are you curious about the difference between the two? In our week together, students will dive deeply into “Nimona” by Noelle Stevenson. This will serve as our core text and framework for our daily reflective writing. Using our reflective writing, we will begin to craft our own graphic novels. Fear not, stick figure drawing is welcomed! If you are curious about how narrative comes to life in a visual form, come join us. (zero previous drawing experience required)

Art in Action: Site-Specific, Installation Art (AM)

(Reenie Charriere)

Class Description:

Over the course of the week, campers will work with Space, Repetition, Unity, Light, and Rhythm as we work to answer the question, “What is Site Specific Art?”

Campers will open their minds and creativity to create their own site-specific installations through the Nueva campus. They will work in teams, using unusual materials and recycled objects. Throughout the class, students will maintain a sketchbook that captures their ideas and processes. Some contemporary artists we will look include: Sheila Hicks, Jessica Stockholder, and Tara Donovan.

Introduction to Music Production (AM)

(Cody Alan)

Class Description:

Introduction to Music Production is a workshop class in which students learn to compose any kind of music they want electronically using the Ableton DAW. Students will get to make beats, write songs, and learn techniques for arrangement and composition. The only requirement for this class is a strong interest in how music is made!

Obstacle-Bots (PM)

(Christine Braun)

Class Description:

Do you love legos? Have you always wanted to build a robot? In our Obstacle Bots class, you will team up with others to create a robot that be programmed to complete a series of tasks – building up to autonomous object retrieval. An exploration into First Lego League will be one aspect of this camp. By the end of the week, each robot will go through a timed-trial of the program’s capabilities.

Model United Nations (PM)

(Lee Ryan Miller)

Class Description:

Do you dream of solving the world's problems? In Model UN, you will play the role of a delegate representing one of the 193 countries in the United Nations. You will learn about your country's politics, society, economy and, most of all, it's relations with other countries in the world. You and the other delegates will debate contemporary world problems. Do you have the diplomatic skills to create a consensus with other countries on how to solve them?

Writer’ Workshop: Nature Writing (PM)

(Jennifer Perry)

Class Description:

In this camp, we’ll explore the transformative power of time spent in the nature. Not only will we venture out daily to the Bay Meadows park immediately adjacent to the campus, we’ll also take a special trip to nearby Crystal Springs Reservoir

as a capstone to the week. Through writing and illustration exercises, we'll practice our skills of observation, slowing down to appreciate the splendor of the living world. We'll also read and write poetry that captures the beauty, power, and majesty of the nature. Join our writing intensive to explore inspirational mentor texts from many writers (including Emily Dickinson as the title of the camp comes from a line of her poetry). Each student will receive a journal at the start of the week in which to compose, illustrate, sketch, and doodle.

Grade 7–8 Classes:

Fun, Fabulous Robots (AM)

(Christine Braun)

Class Description:

Do you love robots? Do you want to build robots using a variety of components? Your team will collaborate to design and build a robot to work autonomously and with teleop. The robot will work through some of the challenges put forth by First Tech Challenge ensuring an exciting and fast-paced day.

Model United Nations (AM)

(Lee Ryan Miller)

Class Description:

Do you dream of solving the world's problems? In Model UN, you will play the role of a delegate representing one of the 193 countries in the United Nations. You will learn about your country's politics, society, economy and, most of all, it's relations with other countries in the world. You and the other delegates will debate contemporary world problems. Do you have the diplomatic skills to create a consensus with other countries on how to solve them?

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Empathy and Literature: Close reading Angie Thomas' *The Hate U Give*

(Alexa Hart)

Class Description:

“Reading,’ according to the writer Joyce Carol Oates, ‘is the sole means by which we slip, involuntarily, often helplessly, into another’s skin.’ The idea that literature orients readers to the thoughts and feelings of others goes back at least as far as Aristotle...” (Frankel, *The Atlantic*, 2 Dec. 2016).

In our one-week intensive we will dive deeply into Angie Thomas' *The Hate U Give* with complimentary materials from Ijeoma Oluo's *So you want to talk about race*. Through daily journaling and book discussions, we will explore and analyze language, the art of reading for empathy, as well as notions of self and other. \ (Note to those who have already enjoyed reading Thomas' novel or seen the film adaptation: There is tremendous value in reading and re-reading this text).

Art in Action: Site-Specific, Installation Art

(Reenie Charriere)

Class Description:

Over the course of the week, campers will work with Space, Repetition, Unity, Light, and Rhythm as we work to answer the question, “What is Site Specific Art?”

Campers will open their minds and creativity to create their own site-specific installations through the Nueva campus. They will work in teams, using unusual materials and recycled objects. Throughout the class, students will maintain a sketchbook that captures their ideas and processes. Some contemporary artists we will look include: Sheila Hicks, Jessica Stockholder, and Tara Donovan.

Introduction to Music Production

(Cody Alan)

Class Description:

Introduction to Music Production is a workshop class in which students learn to compose any kind of music they want electronically using the Ableton DAW. Students will get to make beats, write songs, and learn techniques for arrangement and composition. The only requirement for this class is a strong interest in how music is made!

Week Three (July 22–26)

Grade 5–6 Classes:

Art in Action: Everyday Handmade Clay Objects (AM)

(Reenie Charriere)

Class Description:

Throughout the week, campers will be presented with challenges and activities aimed at thinking of ceramics in a new way. Each camper will create their own series of clay sculptures putting skills, such as coiling, pinching, rolling, and glazing, into practice. Throughout the week, campers will keep a sketchbook to capture their ideas, interactions, and notes about the process. We will look at ancient clay making and contemporary ceramic art including the work of Arlene Schechet.

Knot Theory: Using Textile Arts to Enhance Mathematical Explorations (AM)

(Jana Comstock)

Class Description:

Time to get your hands on some math! In this math class, an ambitious course of study will be supported by time for reflection and creation: We will pursue several different lesson arcs, each leading off with an exploration of advanced mathematics followed by textile arts that reinforce the visual/spatial relationships involved.

*Crocheting with different rates of increase provides a physical representation of non-zero curvature and the concept of non-Euclidean geometries. We'll consider which geometric assumptions hold and which vary with curvature.

*Friendship bracelets suggest braid groups, and students use floss to represent various elements, find inverses, and check for equivalence. We'll introduce group structure, permutations, and explore the concept of commutativity and other fundamental notions in abstract algebra.

*Knots built and physically manipulated out of yarn illuminate knot theory, one of the most approachable yet complex realms of topology. We'll discuss Reidemeister moves and knot equivalence, basic knot invariants, and invent our own notation to compare to methods mathematicians use to name knots.

*Orientability of two-manifolds will also be mentioned; we'll knit a few Mobius strips!

Every participant will return home with an assortment of knitted, crocheted, or knotted mathematical memorabilia. While the material will often be formidable, prerequisites are minimal, and students from a variety of backgrounds will find appropriate challenge and new perspectives on mathematics.

Empathy and Literature: The Immigration Story (AM)

(Alexa Hart)

Class Description:

In our week together, students will dive deeply into *Illegal: A Graphic Novel Telling One Boy's Epic Journey to Europe* by Eoin Colfer and Andrew Donkin. This is a beautiful novel about two brothers searching for their sister in Europe as immigrants. This will serve as our core text and framework for our daily reflective writing. Using our reflective writing, we will begin to craft our own graphic novels from the perspective of Ebo's sister. Fear not, stick figure drawing is welcomed! If you are curious about how narrative comes to life in a visual form, come join us. (zero previous drawing experience required)

Mock Trial (PM)

(Lee Ryan Miller)

Class Description:

Do you have a passion for justice? Are you someone who likes to win arguments? In Mock Trial, you will get the opportunity to argue your case as a prosecuting attorney or a defense attorney in a criminal trial. You will also

vigorously defend your client's interests as an attorney in a lawsuit. You will learn the rules of evidence and how to question witnesses. Hopefully, you will gain a greater appreciation for the American system of justice.

Writer's Workshop: Science Fiction and the Art of Screenwriting (PM)

(Judith Worrall)

Class Description:In this course, you will learn about the power of writing to create positive social change by studying writers who use their craft as a means of activism. Following their models, you will then become an activist writer yourself!

This may include reading an extract from Rachel Carson's *Silent Spring* and working on your own environmental writing, or reading Alice Walker's *Anything You Love Can Be Saved* and using her techniques for political reform. You may read a poem like "I, Too" by Langston Hughes and consider how this might inspire you to create a change in social attitudes through poetry.

Whatever your passion or approach may be, our goal will be to give you the opportunity, through time and practice, to develop your writing in hopes of making our world a little brighter and, perhaps, to change someone's mind about an issue that is important to you.

Logic Madness (PM)

(Lissie McAlvey)

Class Description:

On opposite day, everything is its opposite. Today is opposite day. Is today opposite day or a normal day?

Logic, the study of reasoning, is an essential part of all areas of life and leads to lots of fun puzzles to tackle! Throughout the week, we will lose our minds a little bit while traipsing through the wonderful world of logic. We'll be introduced to the history of logic, from Aristotle to Godel, spending each day on a famous logic problem (Zeno's Paradox, Monty Hall

Problem, Prisoner's Dilemma and Nash Equilibrium, and the Incompleteness Theorem), creating our own logic scenarios and puzzles along the way.

At the end of the week, you will have had a lot of fun discussing, creating, and reasoning and we all will have gone slightly mad trying to wrap our minds around logic scenarios and puzzles because, after all, the father of logic, Aristotle, said himself, "*No great mind has ever existed without a touch of madness.*" You'll also leave class with a logic book puzzle created by yours truly.

This class is perfect for all levels of math skill! If you enjoy logic puzzles, TedEd puzzles, visual puzzles, or learning about paradoxes, you will enjoy this class. Then again, maybe it's opposite day :)

Grade 7–8 Classes:

Astrophysics (AM)

(Hunter Richards)

Class Description:

Have you ever looked up at the sky and felt a sense of wonder the universe? The universe is full of surprising and fascinating objects that stretch beyond the imagination, including black holes, dark matter, pulsars, galaxies, stars, and so much more.

While these objects create a sense of wonder, the methods we use to observe them are also unique and interesting. We use radio waves and infrared to "see" stars, and lasers to "feel" gravitational waves. In this course on Astrophysics, we will take a journey through the cosmos and into the field of astronomy. We will study many of the strangest objects in our universe, and the ways we observe the objects by building a telescope.

Mock Trial (AM)

(Lee Ryan Miller)

Class Description:

Do you have a passion for justice? Are you someone who likes to win arguments? In Mock Trial, you will get the opportunity to argue your case as a prosecuting attorney or a defense attorney in a criminal trial. You will also vigorously defend your client's interests as an attorney in a lawsuit. You will learn the rules of evidence and how to question witnesses. Hopefully, you will gain a greater appreciation for the American system of justice.

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(Alexa Hart)

Class Description:

“Reading,’ according to the writer Joyce Carol Oates, ‘is the sole means by which we slip, involuntarily, often helplessly, into another’s skin.’ The idea that literature orients readers to the thoughts and feelings of others goes back at least as far as Aristotle...” (Frankel, The Atlantic, 2 Dec. 2016).

In our one-week intensive we will dive deeply into the 2016 Coretta Scott King Author Honor book, and recipient of the Walter Dean Myers Award for Outstanding Children’s Literature, *All-American Boys*, by Jason Reynolds and Brendan Kiely. This novel, about two teens- one black and one white- struggle with an incident of violence at their school, is gripping. Using complementary materials from Ijeoma Oluo’s *So you want to talk about race*, we will explore and analyze language, the art of reading for empathy, as well as notions of self, other, race, and identity. Through daily activities and journaling, we will begin to craft a response to various characters in the text.

Art in Action: Everyday Handmade Clay Objects (PM)

(Reenie Charriere)

Class Description:

Throughout the week, campers will be presented with challenges and activities aimed at thinking of ceramics in a new way. Each camper will create their own series of clay sculptures putting skills, such as coiling, pinching, rolling, and glazing, into practice. Throughout the week, campers will keep a sketchbook to capture their ideas, interactions, and notes about the process. We will look at ancient clay making and contemporary ceramic art including the work of Arlene Schechet.

Knot Theory: Using Textile Arts to Enhance Mathematical Explorations (PM)

(Jana Comstock)

Class Description:

Time to get your hands on some math! In this math class, an ambitious course of study will be supported by time for reflection and creation: We'll pursue several different lesson arcs, each leading off with an exploration of advanced mathematics followed by textile arts that reinforce the visual/spatial relationships involved.

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*Orientability of two-manifolds will also be mentioned; we'll knit a few Mobius strips!

Every participant will return home with an assortment of knitted, crocheted, or knotted mathematical memorabilia. While the material will often be formidable, prerequisites are minimal, and students from a variety of backgrounds will find appropriate challenge and new perspectives on mathematics.

Week Four (July 29–August 2)

Grade 5–6 Classes:

Virtual Travel Through Latin America: Around the World in Search of Tortillas (AM)

(Veronica Guevara)

Class Description:

We will explore how a tortilla changes around the Spanish speaking world—Mexico, Guatemala, Honduras, Nicaragua, and Spain-- Exploring the language and cultural contexts through poetry, reading, songs and cultural video excerpts, culminating in a community preparation and sharing the different tortillas from the regions. Come prepared to learn some Spanish, about the places where Spanish is spoken, and have your hands and taste buds excited to try on some new tortillas and their fillings. By the end of the week, you will have your passport stamped with 5 countries' entries and be ready to try on even more new things.

MicroFiction: The Art of Flash Fiction (AM)

(Alexa Hart)

Class Description: The shortest story in English language famously reads: "For sale: Baby shoes. Never worn." Ernest Hemingway's six word story speaks to the power of concussion, language, and ambiguity. In this one-week intensive, we will examine the various frameworks for microfiction (300-1000 word short stories). While reading an array of micro-fiction authors, we will also explore what distinguishes this flash art from short story writing and poetry. We will also try our hand at crafting our own microfiction.

Math and Poetry (AM)

(Lissie McAlvey)

Class Description:

As Einstein put it: "Pure mathematics is, in its way, the poetry of logical ideas."

Math is sometimes sequestered to a corner away from its friend, Poetry. However, both Poetry and Math require precision and creativity and I'm convinced they love spending time with one another! Both are spiralling concoctions that take us on journeys of our own making that open up our scope of understanding. In this class, you'll have the chance to see just how well they work together.

We will spend each day exploring a math concept or idea with hands-on activities (fractals, pi and phi, sequences, infinity, and geometry) before turning these logical ideas into poetry. We'll investigate the 0-1 binary rhythm of iambic pentameter, write a Fibon-cu, inspired by Fibonacci numbers, create visual math poems, and try using math expressions as metaphors. You'll leave with a Muji journal full math scribbles and poetry scribbles.

Playing Politics (PM)

(Lee Ryan Miller)

Class Description:

Prepare to practice the art of politics in The Civic Mirror® political role-playing game. You will inhabit a country modeled after the US and will have the opportunity to manage a business, run for office, and serve on a jury. If someone sues you or charges you with a crime, you will be put on trial. You will have to find a way to keep the members of your family alive (provide them with food, shelter, medical care, etc.) while pursuing your "hidden agenda" (secret goals). You will work through the real-life challenges and trade-offs necessary to enact legislation in a country where people's goals are often in conflict.

Astrophysics (PM)

(Hunter Richards)

Class Description:

Have you looked up at sky and felt a sense of wonder about what is out in the universe? The universe is full of surprising and fascinating objects that stretch the imagination, including black holes, dark matter, pulsars, galaxies,

stars, and so much more. While these objects create a sense of wonder, the methods we use to observe them are incredible and fascinating. We use radio waves and infrared to “see” stars and lasers to “feel” gravitational waves. In this course we will take a journey through the cosmos and the field of astronomy. We will study many of the strangest objects in our universe and the ways we observe the objects by building a telescope.

The World of Fractals (PM)

(Steven Chanan)

Class Description:

Fractals are all around us, from shells on the beach and spiral galaxies to the complex structure of the human lung. Take a close look at a stalk of broccoli and you'll see that the pattern is the same regardless of scale: a big stalk branches into smaller stalks, each of which branches into even smaller stalks, down and down several levels. This is an example of a fractal—a mathematical object that is similar to itself at different size scales. In this intensive, we will study fractals by drawing them and by building them, both with physical objects (paper, envelopes, pennies, Zome tools, and so on) and computer software. Fractals studied will include the Koch snowflake, Sierpinski triangle, dragon fractal, and the Hilbert curve.

Grade 7–8 Classes:

Playing Politics (AM)

(Lee Ryan Miller)

Class Description:

Prepare to practice the art of politics in The Civic Mirror® political role-playing game. You will inhabit a country modeled after the US and will have the opportunity to manage a business, run for office, and serve on a jury. If someone sues you or charges you with a crime, you will be put on trial. You will have to find a way to keep the members of your family alive (provide them with food, shelter, medical care, etc.) while pursuing your "hidden agenda" (secret goals). You will work through the real-life challenges and trade-offs necessary to enact legislation in a country where people's goals are often in conflict.

Writer's Workshop: Science Fiction and the Art of Screenwriting (AM)

(Judith Worrall)

Class Description: In this course, you will learn about the power of writing to create positive social change by studying writers who use their craft as a means of activism. Following their models, you will then become an activist writer yourself!

This may include reading an extract from Rachel Carson's *Silent Spring* and working on your own environmental writing, or reading Alice Walker's *Anything You Love Can Be Saved* and using her techniques for political reform. You may read a poem like "I, Too" by Langston Hughes and consider how this might inspire you to create a change in social attitudes through poetry.

Whatever your passion or approach may be, our goal will be to give you the opportunity, through time and practice, to develop your writing in hopes of making our world a little brighter and, perhaps, to change someone's mind about an issue that is important to you.

The World of Fractals (AM)

(Steven Chanan)

Class Description:

Fractals are all around us, from shells on the beach and spiral galaxies to the complex structure of the human lung. Take a close look at a stalk of broccoli and you'll see that the pattern is the same regardless of scale: a big stalk branches into smaller stalks, each of which branches into even smaller stalks, down and down several levels. This is an example of a fractal—a mathematical object that is similar to itself at different size scales. In this intensive, we will study fractals by drawing them and by building them, both with physical objects (paper, envelopes, pennies, Zome tools, and

so on) and computer software. Fractals studied will include the Koch snowflake, Sierpinski triangle, dragon fractal, and the Hilbert curve.

Virtual Travel Through Latin America: Around the World in Search of Tortillas (PM)

(Veronica Guevara)

Class Description:

We will explore how a tortilla changes around the Spanish speaking world—Mexico, Guatemala, Honduras, Nicaragua, and Spain-- Exploring the language and cultural contexts through poetry, reading, songs and cultural video excerpts, culminating in a community preparation and sharing the different tortillas from the regions. Come prepared to learn some Spanish, about the places where Spanish is spoken, and have your hands and taste buds excited to try on some new tortillas and their fillings. By the end of the week, you will have your passport stamped with 5 countries' entries and be ready to try on even more new things.

MicroFiction: The Art of Flash Fiction (PM)

(Alexa Hart)

Class Description: The shortest story in English language famously reads: "For sale: Baby shoes. Never worn." Ernest Hemingway's six word story speaks to the power of concussion, language, and ambiguity. In this one-week intensive, we will examine the various frameworks for microfiction (300-1000 word short stories). While reading an array of micro-fiction authors, we will also explore what distinguishes this flash art from short story writing and poetry. We will also try our hand at crafting our own microfiction.

Math and Poetry (PM)

(Lissie McAlvey)

Class Description:

As Einstein put it: "Pure mathematics is, in its way, the poetry of logical ideas."

Math is sometimes sequestered to a corner away from its friend, Poetry. However, both Poetry and Math require precision and creativity and I'm convinced they love spending time with one another! Both are spiralling concoctions that take us on journeys of our own making that open up our scope of understanding. In this class, you'll have the chance to see just how well they work together.

We will spend each day exploring a math concept or idea with hands-on activities (fractals, pi and phi, sequences, infinity, and geometry) before turning these logical ideas into poetry. We'll investigate the 0-1 binary rhythm of iambic pentameter, write a Fibon-cu, inspired by Fibonacci numbers, create visual math poems, and try using math expressions as metaphors. You'll leave with a Muji journal full math scribbles and poetry scribbles.