

# Exploratorium 2014

Carolina Friends School

May 19-June 4, 2014

**exploratorium** (eks plôr e tôr ë em) **n.**, pl. -  
i-ums 1. an arena designed to search for truth;  
2. a group of persons looking closely; examining  
carefully; investigating in depth; 3. *Educ.* a  
guided experience outside the classroom designed  
to give students a broader view of the world  
and themselves within it; 4. a catalyst for  
personal exploration; 5. An excursion (to a region  
previously unknown or little known) in order to  
learn more about its natural features, inhabitants,  
etc.

Dear Middle School Parents,

15 April 2014

It is hard to believe Exploratorium and the end of the year are right around the corner. It seems like yesterday we were welcoming students during Orientation and connecting with you at Back-to-School Night. Time certainly flies! For those of you who are new to the Middle School this year, Exploratorium began several years ago as a necessary solution to a space problem while the Middle School was being remodeled.

When those who were here at that time saw the overwhelming positive response from students, staff, and parents, the Middle School staff took a closer look. What was discovered was that something wonderful had been created. Exploratorium serves many of the important needs of adolescents as described by Charity James in her article, "On the Unique needs of Adolescents". In this article, she outlines the following needs: intensity, exploration, risk-taking, gaining expertise, personal growth, decision-making, problem solving, and information gathering. Because of the unique format of Exploratorium, which features short, intensive courses, students are able to have a completely different, more intense school experience than they usually do. These experiences involve dabbling in new fields of study, delving deeply into topics that are of particular interest, taking risks, building groups, and exploring relationships with themselves and others. Exploratorium provides the opportunity to support adolescent developmental needs as well as blends perfectly with 21st century skills of critical thinking, problem solving, collaboration, creativity, adaptability, curiosity, imagination, and others. This is an outstanding opportunity for our students and we are excited for it to happen again.

**Exploratorium will consist of three mini-sessions. The dates of these will be:**

<b>Week One:</b>	<b>May 19-23</b>
<b>Week Two:</b>	<b>May 27-30</b>
<b>Week Three:</b>	<b>June 2-4</b>

As in years past, we are excited this year to be able to offer a wide variety of Exploratorium options. The Middle School staff really enjoy the opportunity to offer these in-depth mini-courses in subject areas with which they have experience and passion but may not get a chance to teach during the year. We are excited to welcome back alumni, former staff, and parents as guest teachers to help expand our course offerings (brief bios of guest and part-time staff are included at the end of this letter). The quantity and quality of Exploratorium options are outstanding.

Attached is a course description and registration packet. **At the end of the packet is a permission form which must be returned to advisors by 4/21/14.** Please read all course descriptions carefully. Course options range from off-campus trips and art explorations to acting and cultural experiences. Some courses have specific prerequisites. Other courses have additional costs associated with transportation, lodging, or special materials. Please take all of these things into consideration as you and your child go through the registration process. Also, please be aware that scholarships are available for all courses. Costs should not be a factor in any child's choice to participate and we ask that you support Exploratorium by letting us know when scholarship funds are needed.

We look forward to sharing these special learning experiences with your children!

Middle School Staff

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Bios of guest and part-time staff who are leading Exploratoriums (all staff bios can be found on the CFS website):

Andrea Selch-Andrea's love affair with horses began long ago. As a teenager, she showed in hunters, equitation and Junior Jumpers. As an adult, she practices dressage, takes part in Hunter Paces, and coaches a team of vaulters, Triangle Equestrian Vaulting. She also holds a PhD in English from Duke University, a black belt in Shito-ryu Karate, and is a published poet. She has been President of Carolina Wren Press since 2002, and is the parent of two CFS students.

Caitlin Wells-Caitlin holds a B.A. in Latin American Studies from Macalester College and has been teaching for 10 years--theater, ESL, Portuguese, and Spanish from Maine to Minnesota, and most recently at CHICLE Language Institute in Carrboro. After living in Brazil and Spain, she speaks Portuguese and Spanish fluently. Caitlin is also an actor and designer with Little Green Pig Theatrical Concern in Durham. Caitlin teaches Spanish in the Middle School.

Coleman Whittier— Coleman is a CFS parent of three CFS students. She has studied French all of her life and speaks the language fluently. She loves France and lived there for a year to become submersed in the language. Coleman has subbed a lot in the Middle School, mostly in Language Arts. She will be co-teaching a course during Exploratorium with Françoise on the Tour de France.

Dave Donaldson—Dave coaches a variety of sports at CFS, including the Middle School baseball team. He has served in the role as guest teacher in the past when he and a Middle School student co-taught a class in Baseball. Holding two degrees in Physical Education, Dave has contributed a lot to our PE program at CFS, including scoring every single basketball game this season. Dave is married to Sue Caldwell Donaldson, head teacher of the Chapel Hill Early School.

Emily Chamberlain – Emily is a professional educator with over twenty years of experience in both public and private schools. As a teacher of literature and writing in the Middle and Upper Schools for much of her career, she was deeply influenced by the tenets of Quaker education and discovered within that philosophical framework her truest sense of calling and vocation. Emily lives in the Pacific Northwest, where she works as a Courage and Renewal facilitator leading retreats for participants from a wide range of backgrounds and professions. It is her great joy to return to CFS each year to offer an Exploratorium with her dear friend and former colleague Annie Dwyer.

Erica Davis- Erica has been teaching elementary and middle school Spanish in this area for the last six years, after having taught ESL in Japan and South Korea for three years, . She received her M.A. in Teaching Spanish (K-12) at UNC-Chapel Hill in 2010, and currently teaches Spanish in the Middle School. Erica also teaches Nonviolent/Compassionate Communication, is a certified yoga teacher, and loves and has taught dance.

Jonathan McGovern- Jonathan is in his seventh year of teaching at CFS and is a graduate of UNC-C. Jonathan teaches in all units at CFS, including Global Lit and History in the Upper School. Jonathan is an avid tennis player and well-rounded athlete. Jonathan teaches sports electives in Middle School and coaches the tennis teams.

Kathleen Rogers-Kathleen has a lifelong interest in nature and enjoys birding, gardening and participating in citizen science projects. She has a PhD from Duke in cell biology. Kathleen has been a substitute teacher at CFS for 8 years and taught science-based camps at CFS for 3 summers.

Mig Little-Hayes-Mig is well suited in her dual role as teacher/media specialist in the Middle School, with an M.A. in English, Masters of Library Science, and 32 years teaching experience. She has been teaching at CFS for 29 years, and is the parent of two CFS graduates. Mig teaches English and multimedia electives, and she's passionate about the integration of appropriate technology in her teaching. She also serves on the Tech Team, providing Mac support to all units.

Sharon Guillory-Sharon is the Technology Director at CFS. She studied engineering and computer science as an undergrad, and holds a Master's in Information Systems. Sharon love to hack hardware and tinker with electronics.

Sophie Suberman- Sophie has taught Spanish at CFS in the past, and currently is assistant coach for the girls' soccer team. She has a BA from Skidmore in Spanish and has done graduate studies in Law. She is also a tutor, and is working on her life coaching degree through Accomplishment Coaching. Her passions include personal growth, communication and connection, and nature.

## EXPLORATORIUM COURSE OFFERINGS 2014

### Week 1

Catching On To Earthcaching - Kathleen Rogers  
Civil Rights Experience - Kate Pendergrass, Mallory Konell, André Robert Lee and Hathaway Pendergrass  
Cooperative Games - 2014 - Dave Donaldson  
Equestrian Vaulting - Andrea Selch and Erica Davis  
Exploring Camelot - Rachel Anderson and Ida Trisolini  
I Spy - Sopia Suberman  
In The Kitchen - Leon Ikenberry  
Puppet Masters-Jamie Charles & Tommy Johnson  
So You Want To Start Your Own Business? - Mig Hayes  
Smokies: Hiking and Poetry-Henry Walker  
Soccer: The "Beautiful Game" - Jonathan McGovern

### Week 2

Comic Design-Jamie Charles  
Cooking-All Around The World - Mary Deb Englund and Mary McMorris  
Exploring Deep Space - Jim Rose and Natasha Nazareth-Phelps  
Imaginative Transitions Together - Annie Dwyer and Emily Chamberlain  
Minor League Road Trip - Dave Donaldson  
National Treasures - Kathy Lucente and Anna Lynch  
Science and Science Fiction - Robert Bittle  
Shakespeare's Genius - Caitlin Wells  
Tour de France @CFS - Françoise Heyden and Coleman Whittier  
Tutoring At Forest Hills Elementary - Nancy Parsifal  
Who Knows - The Sonic Screwdriver Project - Sharon Guillory  
Word Play: When Text Meets Textile  
Writin' And Ramblin' - Ida Trisolini

### Week 3

4th Years End-Of-Year Experience - Kip Kuhn and Kate Pendergrass  
¡Fiesta!- Françoise Heyden and Elizabeth Manzanilla  
Forest Forts - Robert Bittle  
Glass Class - Mallory Konell  
Island Discovery - Leon Ikenberry and Nancy McGilvary  
Long Live Lemurs - Lisa Joyner  
Mind, Body, Spirit, Breath - Erica Davis  
Musical Playground - Joanna Sisk-Purvis  
NC Wild and Wonderful: Photojournalism Project - Tommy Johnson  
Physical Theatre Intensive - Caitlin Wells  
The Pizza Project-Kathy Lucente and Amy Smoker  
Scrapbook and Slideshow-Henry Walker

# Week 1

## **Catching on to EarthCaching**

**Kathleen Rogers**

## **Week 1**

**Location:** Daily field trips

**Costs:** none

### **Description of Course**

Welcome to the 10 year old global excitement of EarthCaching! Developed by the Geological Society of America (GSA), EarthCaching is enjoyed internationally as both a hunt and an outdoor classroom for learning about earth science. Similar to Geocaching, EarthCachers use GPS technology to search for treasures. Unlike Geocaching, the finds are the natural treasures of our earth. This Exploratorium is a combination of earth science, GPS technology, and spending time in the great outdoors. Referencing the EarthCaching website, [www.earthcache.org](http://www.earthcache.org) and using GPS devices, we will travel locally to explore and discover why and how geologic formations (and other features) occur, in the spot they occur. Then, we will do research on our own site(s) of interest, write an article describing the natural and human history of the site, and publish it on the EarthCaching website (after review by the GSA). We will fit in some geocaching and search for trinkets hidden by folks in the community.

### **Before you sign up, make sure you know**

As a mature participant in this Exploratorium, you should enjoy being outdoors and be willing to contribute to a group effort as you learn about earth science. You must have the desire to participate in researching a science topic thoughtfully and thoroughly since the resultant written article will be published online and visible to the whole world! Open to all years.

## **Civil Rights Experience**

**Kate Pendergrass, Mallory Konell, André Robert Lee,  
and Hathaway Pendergrass**

## **Week 1**

**Locations:** Birmingham, Montgomery,  
Selma, Atlanta, Greensboro & Durham

**Costs:** \$200 (scholarships available)

### **Description of Course**

This class will explore the Civil Rights Movement, its leaders, and some of the prominent places locally and a bit further that were important during this time in history. We will work to understand the historic value of the movement that helped to shape this country for ALL people. We will be traveling to cities throughout the south and visiting a number of museums and landmarks.

### **Before you sign up, make sure you know**

Students in this Exploratorium have already pre-registered. Make sure you have spoken with Kate or Mallory before signing up. If you already submitted an application, please don't include other choices for this week.

## **Cooperative Games – 2014**

**Dave Donaldson**

### **Week 1**

**Locations:** CFS

**Costs:** none

#### **Description of Course**

This class will present a number of games, activities, and challenges that can only be played or accomplished through cooperation between members of a group. The activities in this class involve cooperation, acceptance, inclusion, and are fun and promote self-worth. The concept is to develop positive interaction between people and to play simply for the sake of playing and having fun. A few of the activities do involve a bit of competition but it is the playing of the game that is stressed – not the victor. As a group we will play games and experience fun without competition, work together to solve challenges while playing quiet games, perform partner gymnastic skills and face physical and mental challenges through teamwork. The students may or may not be challenged to develop a cooperative activity or experience of their own devise.

#### **Before you sign up, make sure you know .**

You will need a snack, lunch, water bottle and shoes appropriate for moving around in and outside. You will also want to bring your sense of fun and adventure!

## **Equestrian Vaulting**

**Andrea Selch and Erica Davis**

### **Week 1**

**Location:** Lochill Farm, Mills-Selch House

**Costs:** None

#### **Description of Course:**

Have you ever wanted to stand up on a horse? How about ride backwards? Or sit sideways or on the horse's neck? Do you want to learn about basic horse grooming, care and safety? Do you want to be outside in the spring weather? If so, then this class might be for you. Equestrian Vaulting is the sport of gymnastics on horseback, a very popular sport in Europe that is growing in popularity here in the US. It's a lot like circus riding, but without the tutus! In this class, students will learn the compulsory moves-- mount, basic seat, flag, stand, click, mill, back click and dismount. There will also be time to learn some freestyle moves like Special K, Plank, Candle, Shoot-the-Duck, Superman, and even Dead Barbie! In the morning we will work on gymnastics, stretching, yoga and try the moves on a practice barrel at the Mills-Selch house. In the afternoon, we will groom our wonderful safe horse Prince at Lochill farm, and then begin learning the moves on him as he walks or trots on a rope around Andrea. By Friday we should be ready to do a little demo for the parents.

#### **Before you sign up, make sure you know**

We will be outdoors for much of the day so bring sunblock, a hat and plenty to drink (plus lunch). Students should bring sneakers or other closed-toe shoes as well as a pair of swim shoes for vaulting on the horse. Clothing: tight shirts and leggings or sports pants are best; no shorts. please highlight any requirements, specific needs, requests, etc. We will transport students to and from CFS. Here is a link to Helen practicing about a year ago: <http://www.youtube.com/watch?v=vfVb8A-sbPw>

## **Exploring Camelot**

**Rachel Anderson and Ida Trisolini**

## **Week 1**

**Location:** Middle School and Woods

**Costs:** \$10

### **Description of Course**

Hear ye, hear ye, do we have a tale for you. It's the tale of dragons, knights, princesses, wizards, kings, and of course lowly peasants. Come explore the world of knights, ladies and lords in this exciting course full of enactments, historical discoveries and creative expression. We will recreate the Middle Ages (without the bubonic plague) through dance, visual arts, acting, some creative writing, and mostly role playing. During the week students will take on an assigned role of a character from the Middle Ages. They will conduct research on the lifestyle of that character. Together we will create a Middle Ages portfolio that compiles our collected knowledge. Our week will end with a medieval festival in which we revel in our newfound skills and knowledge.

### **Before you sign up, make sure you know**

We will be playing outside and doing art projects that include paint. Plan to get dirty every day. We will do some research online early in the week. You will need to bring a snack every day. You will need to bring a lunch Monday - Thursday. Friday we'll cook our own lunch feast. (If you have special dietary needs or if you don't like the feast menu, you may still want to bring your own lunch and snack on Friday.)

## **I Spy**

**Sophie Suberman**

## **Week 1**

**Location:** Based at CFS, with local travel

**Costs:** \$20

### **Description of Course:**

I spy with my little eye CONNECTIONS! Come take a walk on the wild side and find all the ways you connect with the world around you. From walks in the woods to community centers and everywhere in between, come with a critical eye for abundance and connection. During this **Exploratorium**, we will galavant through places and spaces both known and unknown, and will practice our abilities to relate with the world around us through listening, noticing, appreciating and engaging all kinds of things -- people, plants, buildings, space, and no space, and...! Come with a desire to engage and explore our planet -- there are no holds barred.

### **Before you sign up, make sure you know**

Parents will need to sign a permission form for all daytrips. All trips will be local opportunities for youth to engage in community -- farms, community centers, elderly facilities, museums, town centers, for example. If you have any special needs around travel, please plan accordingly and feel free to reach out to ask questions or communicate your needs (Sophie can be reached at 919-357-5333, [s.suberman@gmail.com](mailto:s.suberman@gmail.com)).

## **In the Kitchen**

**Leon Ikenberry**

### **Week 1**

**Location:** #4 The Glen Chapel Hill, NC

**Costs:** Depends on menu selection of their group

#### **Description of Course**

Participants in this Exploratorium will cook a wide variety of foods each day determined by their interests. Student will learn some of the basics of cooking including proper use of kitchen utensils, and safety in the kitchen. We will explore the work of some well-known chefs. This course is designed for seasoned chefs and the beginning cooks. On the first day of class we will all cook various different recipes of Leon's choosing. I do love Mac and Cheese! Also on the first day we will plan for what individual groups will cook for the rest of the week. We will also watch a few episodes of various cooking program from the Iron Chef to Good Eats. You will learn how to read and follow recipes, measure dry and liquid ingredients, collaborate with others and take responsibility for seeing a project through from beginning to end (including clean up!).

#### **Before you sign up, make sure you know**

Realize that lunch for the week could be prepared by the students themselves....YUM. Cost will vary depending on menu chosen by folks in the group. Kids will need to bring in special supplies for what they plan to prepare. The basics will be provided.

## **Puppet Masters**

**Jamie Charles & Tommy Johnson**

### **Week 1**

**Location:** MS Art Studio, CFS

**Costs:** none

#### **Description of Course**

In this class we will create several puppets using a wide variety of techniques. We will explore making sock puppets, paper puppets, shadow puppets and mechanical puppets. Some will be quite small and some will be quite large. We will practice developing characters, finding their personalities and voices, and coming up with short stories to perform each day. For these projects we will be working both individually and in groups to design, build, and animate our puppets and to develop our performances. By the end of the week you will know how to make a wide variety of puppets, how to write a short puppet performance, how to develop characters for your puppets, and how to be a good audience member.

#### **Before you sign up, make sure you know**

This class will require a lot of focus and attention in order to get our puppets made in a reasonable amount of time and that you will be responsible for clean up each day. There will be lots of creative work in designing, creating, and performing with the puppets.

## **So You Want to Start Your Own Business?**

**Mig Hayes**

### **Week 1**

**Location:** CFS/downtown Durham

**Costs:** Lunch money for 2 days

### ***For Third and Fourth Years Only***

#### **Description of Course**

So You Want To Start Your Own Business? When I was in middle school, my friends and I were always dreaming up ways to make a little money by starting a small business . yard sales, painting wooden chairs, dog-walking. Well, now is your chance!! Did you know that downtown Durham is one of the hot spots in the country for small business development? There are over 70 startup companies in downtown Durham and this area will be our classroom for the week. We will visit as many businesses as we can and talk to these creative entrepreneurs--techies, artists, restaurant owners, architects, gamers--it will be a blast! On the first day, you will learn how to create a business plan and by Friday, you will be "pitching" your new business to the rest of the class. Who knows, you just might be successful.....

#### **Before you sign up, make sure you know**

- Are eager to learn how people like you start businesses
- Know how to behave in business/workplace settings
- Are attentive, engaged and polite, even when certain businesses are not interesting to you
- Have a great attitude and a spirit of adventure
- Can support your peers when they present their business on the last day

## **Smokies: Hiking and Poetry**

**Henry Walker**

### **Week 1**

**Location:** Henry's Cabin in Smokies

**Cost:** \$150

#### **Description of Course**

We will leave CFS about 9:00 a.m. Monday, May 19, and return by 3:00 p.m. Friday May 23. On the way to Tennessee we plan to visit Max Patch, a high grassy meadow on the A.T. (short half-mile hike to top). Expect an 11-mile (round trip) hike to Ramsay Cascades, a high waterfall on the slopes of Mt. Guyot, the third highest peak east of the Rockies. Expect some shorter hikes, a lot of writing and sharing (and drawing if you'd like), a lot of learning about the Smokies--the science and the history. By the end of this trip you will have learned basic geology, botany, zoology, and history of the Smokies. You will also have worked on writing effectively about experiences in nature. You will also have an hour silent time each day for writing, playing in the creek, reading, napping. . . , play "Bear" most evenings, and share your writing/art every day in the Smokies.

#### **Before you sign up, make sure you know**

It is a long drive up to Gatlinburg. This Exploratorium is open only by application and is basically filled. Scholarship aid is available: just ask.

## **Soccer: the “Beautiful Game”**

**Jonathan McGovern**

### **Week 1**

**Location:** CFS campus

**Costs:** none

#### **Description of Course**

Inspired by the upcoming World Cup this Exploratorium will examine the world’s most popular sport, football, or as we call it in the States, soccer. The primary goal (pun intended) will be to play and have fun. There will be opportunities to play outdoors, indoors, team tournaments, world cup, along with other variations that we will create as a class throughout the week. While there will also be time reserved for drills, skill development and strategy, the main emphasis will be on playing. In addition to playing, we will also reserve some time to learn about the history of soccer, why it in fact is the most popular sport the world over, how it spread around the globe from its humble origins in China and later England, and how vastly different cultures have embraced it and turned into a function culture that cuts across all sorts of artificial boundaries. By the close of the week we will hopefully be able to converse in the truly global language of soccer.

**Before you sign up, make sure you know** that you will spend a week delving into all that the game of soccer has to offer. Rest up and be ready!

## Week 2

### **Comic Design**

Jamie Charles

### **Week 2**

**Location:** CFS

**Costs:** none

#### **Description of Course**

In this class you will learn about the art of creating comics and will have the opportunity to practice through several drawing assignments. You may also be able to work on making your very own comic book. You will also spend time learning and studying famous comic artists and their different styles as you develop your own comic design style. During the week you will make your own sequential art. We will work on our drawing skills, some inking and coloring, and experience practicing a drawing before creating a final piece of work. We will be the director of our story, making sure to use the best “camera angle” for the comic panel.

#### **Before you sign up, make sure you know**

You should bring your love for drawing and creative energy. Be prepared to be invested the whole time.

### **Cooking-All Around the World**

Mary Deb Englund and Mary McMorris

### **Week 2**

**Location:** Home of Andy & Mallory  
Trapani

**Costs:** \$20 (maybe more, depending on students' menu choices)

#### **Description of Course**

We might not have the opportunity to travel to Asia, Africa, Europe, or the Americas. . .but we can stir-fry, stew, sauté, and sample dishes from these cultures. We'll begin each day at school, where we'll meet and then travel to the Trapani's (a short distance from school.) Once we've arrived, you'll be working in teams as you choose recipes, prepare meals, and enjoy each other's creations. Some of you might be new to the kitchen: you'll have the opportunity to learn some cooking basics. The chefs among you will have the chance to develop your culinary skills. What's most important is that you are interested in expanding your palette: Be willing and interested in cooking new dishes, using new spices, and trying new techniques. You'll also be working in groups throughout the week, so it's important that you're comfortable with sharing tasks, compromising, and working in close quarters with your team.

#### **Before you sign up, make sure you know**

1. that you'll be expected to be adventurous--cooking and tasting new foods.
2. that you'll be working in teams all week--be prepared and willing to cooperate, compromise, and take ownership for doing your share.
3. that you'll be sampling new meals so you should still bring along a light snack and lunch.

## **Exploring Deep Space**

**Jim Rose & Natasha Nazareth-Phelps**

## **Week 2**

**Location:** CFS and [NRAO](#) in West Virginia

**Costs:** \$60

### **Description of Course**

How do we know what the Milky Way galaxy looks like? How can you “see” the Universe with radio waves? Is there life beyond Earth? We will explore these questions in this hands on investigation of space science and radio astronomy. We will visit the National Radio Astronomy Observatory in Green Bank, West Virginia, where we will use a 40 foot research radio telescope to investigate the Milky Way galaxy. Students should be prepared to stay up much of the night in order to take their turn at operating the telescope.

### **Before you sign up, make sure you**

- are ready for a long bus trip during the week
- are willing to carefully listen to and follow instructions at the Observatory
- can responsibly and reliably work your team of student scientists

Financial assistance available on request; please ask if the cost would pose a hardship or be prohibitive.

## **Imaginative Transitions Together**

Annie Dwyer & Emily Chamberlain  
(With Sarah Yanuck as a return TA)

## **Week 2**

**Location:** CFS – Timberlake Earth  
Sanctuary in Burlington on May 29

**Costs:** \$15 for materials

### **Description of Course**

This memorable experience will explore the ideas of marking transformation and change within ourselves as it relates to others and the natural world. We will deepen our understanding of how dance, journal writing, poetry and collage can be used to mark key moments in our lives. We will weave those moments and understandings that come from them into dance studies and artwork, which we will keep to mark and remember the experience. Emily and Annie are excited about taking you deeply into the magic with another new twist on journal writing, dance and art. There will be lots of time outside in the natural world in the afternoons and a trip to Timberlake Farm Earth Sanctuary on May 29. We will walk the bridge of transition and visit the magical writing spots along the trails. We will be dancing outside and inside, taking photographs, creating a series of three collages, sharing and laughing and creating gestures and dance phrase that are shaped into a significant study. As always there will be a series of in depth writing exercises for journal writing fanatics!

### **Before you sign up, make sure you know**

Please bring a strong focus, energy and a positive attitude. You will need experience with journal writing and dance at CFS. **Open to second, third and fourth year journal writers, dancers and adventurers! Check in with Annie if you are signing up as a second year. We are hoping to have a blend of boys and girls.** You will need dance clothes, a personal journal, pen and comfortable clothes for wandering in the woods. QUESTIONS?? Talk to Annie.

## **Minor League Road Trip**

**Dave Donaldson**

## **Week 2**

**Location:** CFS, baseball fields in NC  
& VA

**Costs:** \$120, scholarships available

### **Description of Course**

The course starts with classroom lectures and discussions regarding the history of minor league professional baseball in the United States. It focuses primarily on the International, Eastern, South Atlantic, and Carolina Leagues. Trips are taken to watch minor league baseball games on three different levels of play: Class A in Zebulon, NC and Greensboro, NC; Class AA in Richmond, VA; and Class AAA in Durham, NC. Students will learn how Minor League Baseball began and how each of the leagues originated and developed. They will learn of players who played in these leagues and eventually influenced and became stars in Major League Baseball. In addition, the students will be taught how to score the game of baseball and will be exposed to various nuances and “games within the game” of baseball. Hopefully, they will see how determination, practice, and hard work can help people progress toward their goals in life. The costs associated with this course involve admission to games, overnight accommodations in Richmond, VA, and some meals.

### **Before you sign up, make sure you know**

We will be travelling a lot, and immersing ourselves in all things Baseball.

## **National Treasures**

**Kathy Lucente and Anna Lynch**

## **Week 2**

**Location** CFS and Washington D.C.

**Cost** \$150 (scholarships available)

### **Description of Course**

In this Exploratorium students will explore museums and monuments of the National Mall with a purpose! Each student will identify a national treasure on which they want to become an expert so that they can teach others about their selected treasure. We will spend the first day on campus researching our treasures and hatching our plans for the sites we will see. The remainder of the week, we will spend in Washington, DC visiting our treasures and teaching one another. Over the course of the week you will learn how to navigate your way around the National Mall; how to read and follow a subway map; where to go for information about the topics you choose; about many of our National Treasures; and more about planning for an experiencing an overnight trip away from home.

### **Before you sign up, make sure you know**

- You will be comfortable being away from home for 3 days and sleeping in a large room with several others of the same gender, in bunk beds
- You are prepared to do some work on your own ahead of time learning about the Smithsonian
- You will be required to bring a sense of adventure, lots of energy, and a positive attitude
- **If your child would like to go on this trip they must get an application from Kathy or Anna. The application gives full details about the trip and parents must sign it. Absolute deadline for applications is Monday, April 21<sup>st</sup>.**

## **Science and Science Fiction**

**Robert Bittle**

## **Week 2**

**Location:** CFS

**Costs:** None

### **Description of Course**

This Exploratorium is for anyone who would like to enjoy some great science fiction movies, and learn something about the real scientific issues that inspire science fiction writers. Each day we will research real science issues of the 20th century, including global warming, nuclear technology, artificial intelligence, and evolution. Each day we will view some excellent science fiction movies that are related to those issues. Each day we will discuss how those movies address the real issues and why these topics are sometimes the source of worry to people. You will develop a greater appreciation of science fiction. Possible movies may include: Matinee (PG), iRobot (PG-13), Contact (PG- 13), Tremors, (PG-13), Evolution (PG-13), and an unrated episode from the original X Files television series of the 1960s.

### **Before you sign up, make sure you agree to**

\*Arrive to class each day willing and eager to read and write.

\*Arrive to class each day with notebook and pencil.

WARNING: A willingness to read and write a lot everyday is expected for this class

WARNING: Some of these movies are SCARY, please keep this in mind as you decide whether to sign up. Also, some of these movies are older, or in black and white, or with special effects that are a little on the cheesy side. If you have a low tolerance for such movies you might not want to sign up for this course

## **Shakespeare's Genius**

**Caitlin Wells**

## **Week 2**

**Location:** CFS

**Cost:** none

### **Description of Course**

We're coming up on the 450th birthday of William Shakespeare, the man who revolutionized the English language and taught us what it means to be human, and what better way to celebrate than to examine why he is still so popular today? We'll look at his turns of phrase (It's all Greek to me!), the musicality of his words, the wildness of his characters, the intensity of his stories, the brilliance of his imagination, and the mysterious life he led. We'll dive into his plays on both the page and the screen, and put scenes of your choice up on their feet in an open, playful environment.

### **Before you sign up, make sure you know**

Please bring your passion for Shakespeare or the English language, a love of words or theater, creative energy, an inquisitive nature, and a willingness to play! Please wear clothes that you can move in and bring plenty of water!

## **Tour de France @CFS**

**Françoise Heyden and Coleman Whittier**

## **Week 2**

**Location:** Campus + Duke Forest

**Costs:** \$15 for Tshirt and food

### **Description of Course**

Get ready to simulate the Tour de France in our very own creation, the Tour de CFS, right here at CFS! We'll bike and compete in some time trials and team challenges every day, and then take off to Duke Forest at least one day. When we're worn out from biking, we'll learn about the winners, routes, etc, as well as bike repair and safety, practice some useful French phrases related to the Tour (what's that *maillot jaune* they keep talking about?) and work on our Tour de CFS t-shirt that you'll get to keep as a souvenir.

### **Before you sign up, make sure you know**

You will need to bring your mountain bike (please no road bikes!), helmet and water bottle, sunscreen and insect spray. Please know that you will be allowed to bike ONLY during designated class time and in designated places away from the construction. Safety is our main concern so: no shoes, no helmets, no riding. *C'est la vie!* That's life!

## **Tutoring at Forest View Elementary**

**Nancy Parsifal**

## **Week 2**

**Location:** CFS & Forest View School

**Costs:** \$10.00 for lunch

### **Description of Course**

We will have the opportunity to offer service to younger children in Kindergarten and First grade who need help with their reading and basic skills, such as writing, math, science and in whatever other ways teachers would appreciate help. Valuable community service is the love and support you share. Plus you get to experience what it's like to be in a public school. We will have lunch with the children in their cafeteria. In the afternoon we will continue to work with our designated teacher and new student friends.

### **Before you sign up, make sure you know**

Students will bring their own snack each day, unless we eat in the cafeteria, as well as a water bottle and a hat for recess. Wear comfortable but suitable clothes to appear in public as you are representing the school (No spaghetti strap tops, flip-flops, or short shorts please). Bring enthusiasm, joy and a willingness to serve others.

## **Word Play: When Text Meets Textile**

**Lisa Joyner & Peg Gignoux**

## **Week 2**

**Location:** CFS Middle School

**Cost:** \$20.00

### **Description of Course**

Join local artist Peg Gignoux and Lisa Joyner in an exciting art collaboration! Together we will stir up vibrant colors with both words and fabric as we create a piece of eye-catching textile art for the CFS Middle School. This 4-day Exploratorium will involve creative wordplay, collage, printing, and stitching. We will layer cottons, silks, and linens as we design a large-scale work that is full of poetry and ideas.

### **Before you sign up, make sure you know that...**

All students will write poetry, make collages, and print fabrics. We will use sewing machines, hot irons, pins, scissors, needles and-- most importantly-- our imaginations.

## **Who Knows - The Sonic Screwdriver Project**

**Sharon Guillory**

### **Week 2**

**Location:** CFS

**Costs:** \$20 for materials

#### **Description of Course**

Doctor Who. Electronics. Taking things apart. Putting things together. Making cool stuff. In this Exploratorium, we'll be doing lots of hands-on electronics, including creating some wearable pieces. We'll learn about basic components and how they work together. We'll disassemble some broken electronics and salvage fans and other parts to make our own solder fume extractors. After practicing wiring up circuits on breadboards, we'll learn to solder components to create durable pieces. We'll have plenty of time for discussion, play, and for watching some (PG) episodes of Doctor Who. And it will become clear to you that David Tennant was the best Doctor. Ever. Each day we'll spend time designing and working on our own sonic screwdrivers and possibly some other Dr. Who props or costumes. Depending on how much work you want to put into your screwdriver, it may light up, buzz, or simply look cool, like a bowtie or fez. One thing you can count on though, is that the screwdriver will be uniquely yours.

#### **Before you sign up, make sure you know**

This is not a science or math class. We'll be learning/using a little science and math, but the main thing we'll be doing is working with our hands, putting things together, taking them apart and making things light up or make noise. Please bring a willingness to experiment with new things. Allons y.

## **Writin' and Ramblin'**

**Ida Trisolini**

### **Week 2**

**Location:** Mostly at CFS

**Costs:** \$5 for a last day treat

#### **Description of Course**

If you love the outdoors and you love to write, this is the perfect Exploratorium for you! Each day, we will play with a different location on and around campus and a different creative writing prompt, or two, or three. We will incorporate some art and music into our exploration of where we can go with our writing literally and figuratively. The first day, we will make our writing journals that we will then fill with our creative brilliance! Most days we will finish up inside typing up and sharing our creations. By the end of the week, you should have quite a few finished pieces and even more rough pieces ready for further work.

#### **Before you sign up, make sure you know**

**We will be going outside every day, even if it's hot. We will be writing every day. A lot.** I will provide plenty of insect repellent, non-deet and deet varieties. You will need to bring a water bottle, snack, a bag lunch and a small backpack or tote bag in which to carry them and your writing journal. Every day you should wear good walking shoes. NO flip-flops or sandals.

## Week 3

### **4TH Years' End of Year Experience**

**Kip Kuhn, Kate Pendergrass**

### **Week 3**

**Location:** CFS and Ace Adventures,  
Oak Hill, WV

**Costs:** \$60, scholarship available

#### **Description of Course**

Your end-of-year experience is designed to round out a year of leadership training, hard work, group building, and--we hope--fun. We'll begin the week on campus, participating in service projects and viewing your Digital Storytelling iMovies. The next morning we will head to Oak Hill, West Virginia, and Ace Adventures Center for two days and one night. We will depart very early Tuesday morning (before school starts) and return Wednesday evening. While there, you will have a number of challenges, both individually and as a group, including white water rafting down the Lower New River. The cost of this trip includes meals and accommodations in supervised cabins, as well as fees for rafting and other activities. Be prepared for an intense, highly engaging three days together.

#### **Before you sign up, make sure you know**

- All 4th Years are required to participate and should not register for other Week 3 Exploratoriums.
- Scholarships are available. Please contact Kip for more information. We also appreciate donations to our scholarship fund.

### **¡Fiesta!**

**Françoise Heyden and Elizabeth Manzanilla**

### **Week 3**

**Location:** Campus + field trips

**Costs:** none

#### **Description of Course**

Do you like salsa, cumbia, merengue music? Can you dance to it? Ever wished someone would show you how to tango? Do you like *fiestas* like *Cinco de mayo* or *carnaval*? Ever wondered what they were celebrating and what it all meant? Well, there are lots of *fiestas* going on all the time in the Caribbean, as well as in Central and Latin America based on indigenous, Spanish, and African cultures, sometimes mixing them all up to create a new tradition. For example, the popular *cumbia* dance was a form of African courtship before indigenous and Spanish cultures adapted it to their rhythms and customs. We will explore this rich cultural heritage as we make masks or costumes, learn the dances and their origins, listen to the music and find out what the lyrics mean, play traditional games, cook typical foods, all depending on what you and the group decide.

#### **Before you sign up, make sure you know**

All you need is curiosity and an open mind! Elizabeth will teach us dances, help with recipes and legends, while you and a classmate research and present your favorite *fiesta* tradition. You don't need to know any Spanish or dance steps to join us!

## **Forest Forts**

**Robert Bittle**

## **Week 3**

**Location:** CFS

**Costs:** None

### **Description of Course**

This Exploratorium will be a lot of fun for any kid who likes to plan forts, build and decorate them, and play in them. Supplies provided will include tarps and rope, lots of cloth materials, and any safe natural material we can find. The class will be divided into 2 or 3 or 4 small groups. Each small group will work together to build a fort in the woods area in the back of the Middle School. There will be times for sharing and show and tell about the forts and how they were created. This Explo will focus on forts as a cooperative and creative effort, a work of art even, and will be evaluated on the basis of creativity, functionality, and durability. Fort members will not be in competition with other fort members, and will not take materials others are using. Hopefully, though, we may find time for active games on the playing fields and in the Quaker Dome when we need to stretch our legs a bit.

### **Before you sign up, make sure you know**

Please bring a positive, cooperative attitude, and a hearty snack, lunch and bottle of water.

## **Glass Class**

**Mallory Konell**

## **Week 3**

**Location:** Glass Class Art Studio, CFS

**Costs** \$75 (for supplies), scholarships available

### **Description of Course**

Ever wondered how different glass pieces become fused together? Interested in making pieces of glass jewelry, or exotic bugs made out of glass? Then, this Exploratorium may be for you! Whether you consider yourself a *grande artiste* or a novice, no big whoop, all are welcome! This week we will explore the beautiful, intricate, and varied forms of glass art. We will create our own fused glass projects, learn about famous glass artists, and view some amazing glass artwork. We will spend our mornings at a fused glass art studio working with Christel Cerrone, learning to use diamond saws, diamond grinders and other hand tools, and making fused glass projects. In the afternoons, we will do a range of things, including investigating glass artists, traveling to glass art exhibits, and more!

### **Before you sign up, make sure you know**

Nothing, but be willing to have fun while you learn a new, creative skill.

## **Island Discovery**

**Leon Ikenberry with Nancy McGilvary**

## **Week 3**

**Location:** Bald Head Island

**Costs:** \$125 - \$135, depending on age of student, scholarships available

### **Description of Course**

This is an exciting opportunity to spend three nights and at least 2 very full days on Bald Head Island discovering and learning about the island habitat from tidal pools, the maritime forest to salt marsh. We will be working with the folks at the Bald Head Island Conservancy to focus on the conservation, preservation and environmental concerns of island life. You might learn about the life of a loggerhead turtle, explore tidal pools and island life after dark, what birds and other critters live in a salt marsh, and the impact of trash on an island community. This trip will focus on Bald Head Island's greatest treasure, nature, through guided tours, service opportunities and more. Beyond all the learning we'll do, we might find a little time to go biking, climb the lighthouse or just spend time building sand castles. Hopefully we won't run into any pirates!

### **Before you sign up, make sure you know**

The meaning of PACKING LIGHT!!! Be aware that this experience will need to begin on Sunday evening June 1st.

## **Long Live Lemurs**

**Lisa Joyner**

## **Week 3**

**Location:** CFS, The Duke Lemur Center

**Costs:** None

### **Description of Course**

This 3-day Exploratorium will serve as both a *service* and a *learning* opportunity for students interested in learning more about LEMURS, a rare and endangered primate species native to Madagascar. The group will spend two days at the Duke Lemur Center, an 85-acre primate sanctuary close to CFS. In the mornings we will work on the Center's predator-proofing project, and in the afternoons we will meet with Research Manager Dr. Erin Ehmke to discuss primate behavior and do some observations and ethograms on the lemurs. We will also learn about CFS's Madagascar Project and watch portions of David Attenborough's film *Madagascar, Lemurs and Spies*. Prepare to fall in love with these loveable, furry prosimian primates right around the corner from school!

### **Before you sign up, make sure you know**

We will be outside working hard on the predator-proofing project by hauling gravel and spreading it along fences that are designed to keep out coyotes, foxes, and other animals that threaten lemurs. In exchange, we will get some very special close-up time with lemurs and small-group instruction from some premier primate scientists and researchers.

## **Mind. Body. Spirit. Breath.**

**Erica Davis**

## **Week 3**

**Location:** CFS

**Cost:** none

### **Description of Course**

Come take some time to cultivate your relationship with all four as we center ourselves, spend some time moving through the poses with the breath, and then relax in savasana (the final resting pose). Before we engage in relationships with others, it can be tremendously helpful to create an intention of nurturing our relationship with ourselves physically, mentally, emotionally and spiritually. We'll also incorporate themes of empathic connection with ourselves and others in the practice by identifying feelings and needs alive in each moment (from Marshall Rosenberg's Nonviolent Communication)

### **Before you sign up, make sure you know .**

This experience will involve active yoga sequences (that all yoga beginners can do), restful periods (mmm, śavasana), walks in the woods, and opportunities to connect and express from the heart with yourself and others.

## **Musical Playground**

**Joanna Sisk-Purvis**

## **Week 3**

**Location:** CFS (Music House)

**Costs:** none

### **Description of Course**

Do you love to make songs in GarageBand? Or perhaps you're a budding singer/songwriter, or have always wanted to try out the flute. In this Exploratorium, we'll explore YOUR musical interests, with lots of time to work independently or in small groups on a musical activity of your choosing. We'll also spend some time listening to and watching videos of some of the world's most creative musicians. We'll end our time together with a music party!

### **Before you sign up, make sure you know**

That one way or another, you'll be making music in this Exploratorium! Please leave all negative attitudes at home. If you're interested in a specific instrument that you don't own, please check with Joanna before you sign up to make sure she can provide one.

## **NC Wild & Wonderful: Photojournalism Project**

**Tommy Johnson**

### **Week 3**

**Location:** CFS & on the road

**Costs:** None

#### **Description of Course**

North Carolina is a state with incredible diversity and variety. We will take a trip each day to a different location here in the heart of North Carolina to visit unique, unusual, and interesting people, places, and things. We will document our travels and discoveries through photographs, interviews, and journal entries. Each afternoon and evening we will post our entries in an online journal (in the form of a Wikispace) so that others can share in our experiences and discoveries.

#### **Before you sign up, make sure you know**

It is helpful, but not required, if you have access to a digital camera to use during the Exploratorium. Most days we will bring our own lunches and snacks, but on at least one day we will be eating at a restaurant as part of our experience.

## **Physical Theater Intensive**

**Caitlin Wells**

### **Week 3**

**Location:** CFS

**Cost:** none

#### **Description of Course**

This course is designed to help the actor do, in public, what is considered impossible. We'll use physical exercises to open the door to an actor's inner creativity, connecting physical training to scene and character technique via warm-ups, images, bodily emotions, listening, voice work, and viewpoints (among other things). Based on the book, *An Acrobat of the Heart*, by Stephen Wangh.

#### **Before you sign up, make sure you know**

Please come ready to move, with a fearless energy, a willingness to take risks, respect for your fellow actors, and a focused thoughtfulness. Wear clothes that you can move in and bring lots of water!

## **The Pizza Project**

**Kathy Lucente and Amy Smoker**

### **Week 3**

**Location:** CFS & local pizza place

**Cost:** \$10 for materials

#### **Description of Course**

What's pizza? How do you make it? Students in Topchi, at our Afghan Sister school, want to know! In this Exploratorium we'll use a photojournalist's approach to answer this delicious question! Activities will include touring a local pizza parlor, shopping for ingredients, making and eating our own pizza, and each step of the way, compiling text and images to create a book to send to Topchi.

#### **Before you sign up, make sure you know that...**

- You'll be counted on to be a collaborative, creative participant.
- Costs will cover ingredients as well as color printing costs to produce our book.
- We can adapt to dietary restrictions.
- We'll need you to represent our school in the best possible way.

## **Scrapbook and Slideshow**

**Henry Walker**

### **Week 3**

**Location:** CFS

**Cost:** none

#### **Brief Description of Course**

We will make a scrapbook of this year to be kept in Henry's room with those from the last 10+ years. Plus we will make a slideshow to present to the middle school the last day before summer vacation. By the end of the week you will have learned how to choose pictures that go together for both the scrapbook and slideshow (this will include a lot of sorting), choose music, work collaboratively in a group and become familiar with how to work audio and visual technology to develop a presentation.

#### **Before you sign up, make sure you know**

Responsibility and creativity are vital. Plus, working with others is required so skills in getting along well with coworkers would be good.

# Exploratorium Registration

Carolina Friends School – Middle School

Student \_\_\_\_\_ Advisor \_\_\_\_\_

## Week 1

Rank	Name of Exploratorium
1	
2	
3	
4	

## Week 2

Rank	Name of Exploratorium
1	
2	
3	
4	

## Week 3

Rank	Name of Exploratorium
1	
2	
3	
4	

## How Can I help?

Parent volunteers perform a vital role in Exploratoriums. Below are some specific ways you might be of help. If you would prefer to email this information please send it to Amy at [agsmoker@cfsnc.org](mailto:agsmoker@cfsnc.org). Otherwise please fill out this form and return to school with the permission slip. **Exploratorium will consist of three mini-sessions. The dates are:**

*Week One: May 19-23*

*Week Two: May 27-30*

*Week Three: June 2-4*

**Parent Name** \_\_\_\_\_ **Student** \_\_\_\_\_

\_\_\_\_\_ **Yes, I can help with transportation.** (Please indicate below when and/or for what )

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_ **Yes, I would like to be a chaperone or volunteer set of hands.** (Please indicate below when and/or for what )

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_ **Yes, I would like to help wherever you need me most. Please email me with specifics.** (Please indicate below when you are available)

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_ **Yes, I would like to help, but I would prefer being with my child.** (Please indicate below when you are available)

\_\_\_\_\_  
\_\_\_\_\_

**Please include any questions or comments that you have here, or feel free to contact Kip, Amy or your child's advisor:**

**Thank you!**

## Parent/Student Exploratorium Permission Form

Please sign and return this form to their advisor in the CFS Middle School by  
**Monday, April 21st.**

I have reviewed the *Exploratoriums* that are being offered with my child.

Child's Name: \_\_\_\_\_

Parent Signature: \_\_\_\_\_

Comments: