

THE ACADEMY OF 21ST CENTURY
LEARNING



Summer Specialty
Camps

2014

The Academy of 21st Century Learning transforms lives by uniting the academic standards of reading, writing, math, science, foreign language, and study skills with creativity, leadership, art, and music.

By focusing these abilities through curriculum targeted to the sciences, technology, engineering, and mathematics, our students will become much more competitive when seeking higher educational opportunities and competing in the global marketplace.

The Academy is conveniently located in the Nut Tree Center in Vacaville, and serves the needs of students and families from locations throughout Solano and Yolo Counties (Fairfield, Winters, Woodland, Dixon, Suisun, and Davis).

The Academy is a new place for learning!

Our energetic instructors, many with degrees from UC Davis, provide expert and state-of-the-art, STEM-based tutoring.



We are also proud to offer summer programs, counseling, SAT/ACT prep, home schooling assistance, and many other academic services to our students in Kindergarten through High School.

As our model, The Academy uses a framework that is comprised of four key categories that will prepare students for the complex demands of the 21st century.

These categories are described below.

Core Subjects and 21st Century

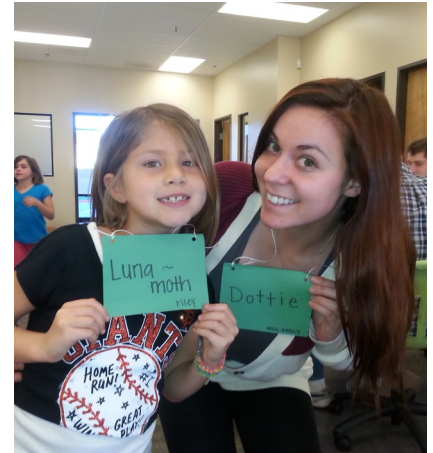
Themes. Students work on core subjects, which include English Language Arts, Mathematics, World Languages, Arts, Economics, Science, History, Geography, and Civics.

Learning and Innovation Skills. These are the skills necessary to be an effective member of the 21st century workforce. They include creativity and innovation, critical thinking and problem solving, communication and collaboration.

Information, Media, & Technology. Our digital and media-rich world is constantly evolving. Students need to understand how to effectively utilize technology and media to contribute to society and collaborate in a constructive fashion.

Life and Career Skills. It is important for students to develop the following skills in order to be competitive in the workforce: flexibility and adaptability, initiative and self-direction, social and cross-cultural skills, productivity and accountability, leadership and responsibility. Together these competencies will provide students with knowledge and skills to maneuver and address the complex demands of the 21st century landscape.

Come join us and be a part of the fun and excitement at The Academy!



**Welcome to Summer Camp at
The Academy of 21st Century Learning!**

I know you're thinking, "But it's only spring!" I'm a mom, too, and I know how fast summer can creep up on all of us. It's never too early to start planning for summer learning activities. We talk a lot about what our kids are learning in school, but did you know we also know a lot about what happens when they're not in school during the summer vacation?

Here are some facts:

- ◇ Most students lose about two months of what they learned in math over the summer months.
- ◇ Low-income students lose more than two months in reading achievement.
- ◇ Parents consistently say that summer is the most difficult time to ensure that their children have productive things to do.
- ◇ Our children's' need to learn does not end in May when the school doors close. They need to stay active and engaged, which also helps them stay on track academically when they return to school in August.

The Academy to the rescue!

Yes, it's time to plan ahead and secure a spot for your child in a program that will support growth and learning during the summer months. Don't worry, you don't have to tell the kids they are avoiding summer learning-loss. If they are having fun with engaging, well-run programs, trust me, *they will be learning*. Please take some time to read through our Summer Schedule, make your choices, and return the registration form with payment.

Many of our classes fill up quickly!

The Specialty Classes are taught by credentialed teachers or University graduating student-teachers. Small groups and classes keep your child focused and challenged. There will be days when The Academy is transformed into Mars, a rain forest, or an ocean scene.

I look forward to seeing you and your children this summer!



Barbara Dwyer, Founder

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Summer 2014 Calendar

June 2014

Sun	Mo	Tue	We	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

August 2014

Sun	Mo	Tue	We	Thu	Fri	Sat
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

July 2014

Sun	Mo	Tue	We	Thu	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

September 2014

Sun	Mo	Tue	We	Thu	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

A Bug's Life



At any given time, scientists believe that there are 10,000,000,000,000,000,000 (ten quintillion) individual insects living all over the planet. With a seemingly inevitable takeover, your student will be glad to have a wealth of knowledge about these tiny beasts. Your little caterpillars will emerge from their cocoons as they learn about dragonfly nymphs, bug-eating bugs, and the obsessive-compulsive cleaning habits of cockroaches.

K-2nd | July 28-Aug. 1 | 9-Noon | \$200

The Academy of Kindergarten Prep

Calling all kids entering Kindergarten in the fall! Come and explore the world of Kindergarten as we study our colors, shapes and numbers. We will sing songs, play, and learn the routine of a day in Kindergarten. Each student who “graduates” will receive a diploma to begin his or her very own portfolio!



K only | August 4-8 | 9-Noon | \$200

The Academy of 1st Grade Prep



Students will learn about classroom routines as they experience a week of math, reading, writing, and creative arts. This class is especially encouraged for those students looking to further develop fine motor, reading, and math skills in a fun, rewarding, and supportive environment. Each student who “graduates” will receive a diploma to begin his or her own portfolio!

1st grade | July 28-Aug. 1 | 9-Noon | \$200

Acrylic and Watercolor Painting

Learn the different techniques and painting styles of master artists. Artists will learn color theory, brush application, and familiarize themselves with different art genres. A portfolio of work will be displayed at an Academy Art Show at the end of week two**. A fun and creative environment is guaranteed. We promise to get a little messy.



3rd-6th | 1-4pm | June 23-June 27th | June 30-July 3 |

** \$225 per Week (supplies included)

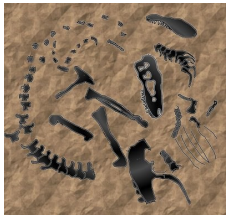
CSI

From fingerprinting to DNA extraction, our crime-solvers-in-training will learn some of the many techniques critical to running a forensic investigation. Students will get hands-on experience as they take forensic photographs, run tests, and solve a crime of their very own. Lieutenant Horatio Caine himself would be glad to employ our junior CSI agents by the end of the week!



7th-8th | July 14-18 | 9-Noon | \$200

7th-8th | July 14-18 | 1-4PM | \$200



Dino Dig

Come join us for an exciting look into dinosaurs and their fossils. Learn how to be a Paleontologist (a scientist who studies fossils) while digging for “bones” and making fossils of your very own.

K-2nd | June 30-July 3 | 9-Noon | \$150

Edible Racing Cars

On your mark, get set, eat your cars! Not in this camp! Learn about the aerodynamics needed to race down ramps, why wheels must be round, and how working as a team builds the best cars. This camp may be full of vegetable mishaps, but the fun and enjoyment of these mistakes will lead to an understanding of engineering and to the spirit of perseverance. Usually found only in senior level classes, we are opening up this camp to 7th graders and above.



7th-8th | July 7-11 | 9-Noon | \$200



Egyptology

Meet the many gods & goddesses of Egypt, prepare for the Afterlife, and learn about mummification in this one-week journey into the antiquity of Egypt. Who was the boy-Pharaoh, King Tut, why were there grave robbers, and what is the mystery behind the pyramids? Become a scribe and draw your own hieroglyphics. Look inside the tombs of long ago, but watch out for the mummy’s curse! This camp will be taught by a teacher from Egypt!

3rd-6th | June 23-27 | 9-Noon | \$200

7th-8th | June 23-27 | 1-4PM | \$200

Fairy Tales

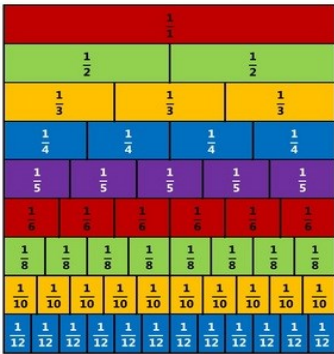
Calling all princes, princesses, wizards, and fairies! It is all about fairy tales at The Academy. We will read stories, draw, write, and learn about fairy tales from all over the world. We will make stone soup and even create our own magical fairy houses! Students are welcome to come in costume.



K-2nd | June 30-July 3 | 9-Noon | \$200 (plus \$25 for Fairy House supplies)

3rd-6th | June 30-July 3 | 1-4PM | \$200 (plus \$25 for Fairy House supplies)

Fraction Wall Fractions Frenzy!

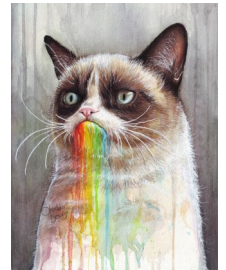


Dive into the world of fractions this summer through fun, interactive activities. This session is perfect for students entering grades 3 through 6 who want to review and extend their conceptual understanding of fractions. Activities will be implemented to meet the individual needs of every student attending the camp. Your child will come home each day excited about math!

3rd-6th | June 23-27 | 1-4PM | \$200

It's Painting Cats and Dogs

Come and enjoy a week full of fun as we learn to paint and mix colors. Artists will paint cats and dogs in various styles from famous artists. The young painter will be introduced to watercolor, tempera, and acrylic paints. Students will end the class with a Cat and Dog Art Show.



K-2nd | June 23-27 | 9-Noon | \$225 (supplies included)

Lego-Kidz

This is a hands-on class where students design and build machines, catapults, pyramids, derby cars, and other constructions out of LEGO bricks. While exploring engineering, architecture, and physics, students will develop problem-solving and critical-thinking skills. Architectural concepts are taught while assembling buildings, bridges, and other structures. Once the project is completed, students will use the rest of their time to expand their gadgets and collaborate with one another.



K-2nd | June 16-20 | 9-Noon | \$200

3rd-6th | June 16-20 | 1-4PM | \$200

K-2nd | July 14-18 | 9-Noon | \$200

3rd-6th | July 14-18 | 1-4PM | \$200

Mars Invasion

You have been assigned to a starship. Your five-year mission is to build a sustainable community on the planet Mars. You must learn as much as you can about the planet, determine what type of community will be most successful there, and outline who and what will be needed to fulfill the mission. Starting as a yeoman, you will be promoted through the levels based on creativity, organizational, and leadership skills. You will need to be a person of vision. Is this you?



5th grade and up (or by approval) | July 21-25 | 9-Noon | \$200



Passport to the Planets

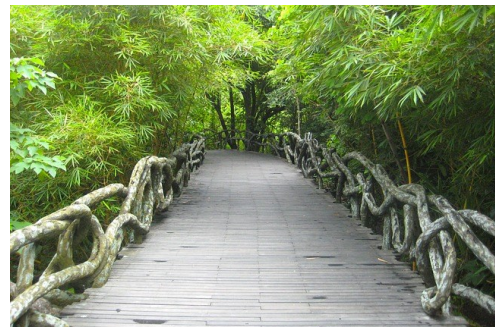
Put on your spacesuit! We are off to explore our solar system. Each of our young astronauts will decide which of the planets he/she wants to become an “expert” on. They will research, draw, write about, and speak to the group regarding their planet. They will have passports, which will be stamped when they have successfully navigated the facts about each planet. 3, 2, 1...blastoff!!

K-2nd | July 21-25 | 9-Noon | \$200

3rd-6th | July 7-11 | 9-Noon | \$200

Rainforest

Join us on a safari through the Amazon rainforest, where leaves grow as big as elephants’ ears! You may run into a stick bug the size of a Chihuahua or a beetle with as much meat as two giant hamburgers. We’ll make sure to watch the poisonous dart frogs and anacondas from a distance as we explore the flora and fauna of tropical and temperate rainforests all over the planet. Along our safari, students will discover the healing properties of rainforest plants and discuss the ecological implications of deforestation.



K-2nd | July 7-11 | 9-Noon | \$200

3rd-6th | July 7-11 | 1-4PM | \$200

Course Descriptions

Code Masters



Computers are taking over the world! In this day and age it's easy to see that computers play a big role in everyday life. With that said, mastering computers can be a rewarding experience rivaled by little else.

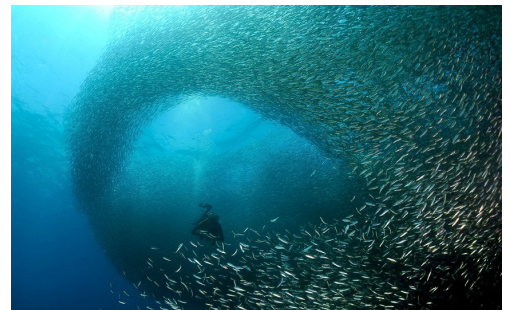
In this class, students will become programming experts and compete against the super-villain Dr. Mad in a series of challenges designed to encourage creative thinking and logical reasoning. Once the students triumph over Dr. Mad, they will work on creating their own program. Whether it's a game or an animation, let's see what these code masters can do!

3rd-6th | June 23-27 | 1-4PM | \$200

3rd-6th | July 28-Aug. 1 | 1-4PM | \$200

The Vast Ocean

What physical structures and behaviors do marine animals have that allow them to survive in their habitats? Students will make observations of animals using nonfiction resources. They will select one marine animal, learn about its habitat and physical structures, and write their observations. Students then will create language-arts projects with their observations and make posters representing their marine animal. Students will demonstrate their reading comprehension skills, including reading strategies, inference, literal meaning, and critical analysis.



K-2nd | June 16-20 | 9-Noon | \$200

3rd-6th | June 16-20 | 1-4PM | \$200

Think Like a Mad Scientist



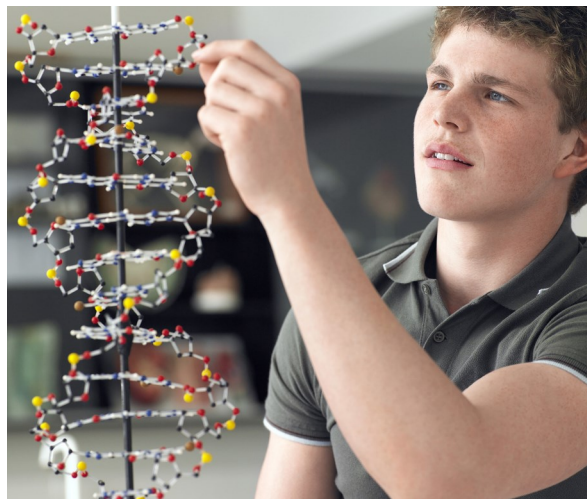
Your Mad Scientist will participate in five days of exploring the world of science. Students will investigate sound and waves, experiment with chemical reactions, spend a day as biologists, and become physicists as they work with balance and energy conservation. Young scientists will not only head home with many fascinating experiments to share, but will also learn to love science and the natural world around them.

3rd-6th | July 21-25 | 1-4PM | \$200

Upper Division Science

Getting Ready for Biology, Chemistry, or Physics? Get started on the vocabulary, concepts, formulas, and overview the basic “how to’s” of these three high school science classes. Classes preview upcoming topics, particularly ones that challenge students at the beginning of the year.

This Fall, your self-confidence will soar as you walk into your classroom knowing you are already way ahead of the curve!



Biology

8th grade and up (or by approval) | M/W/F
July 21-25 | 4:30-6:30PM | \$225

Chemistry

9th grade and up (or by approval) | T/TH
July 15-22 | 4:30-6:30PM | \$225

Physics

10th grade and up (or by approval) | M/W/F
Aug. 4-8 | 4:30-6:30PM | \$225



Upper Division Math

Our small classes ensure that the topics covered are relevant to each student. We fill important skill gaps from the previous year and preview the coming year's topic.

Algebra I

Symbolic reasoning and calculations with symbols are central in algebra. Through the study of algebra, a student develops an understanding of the symbolic language of mathematics and the sciences. In addition, algebraic skills and concepts are developed and used in a wide variety of problem-solving situations.

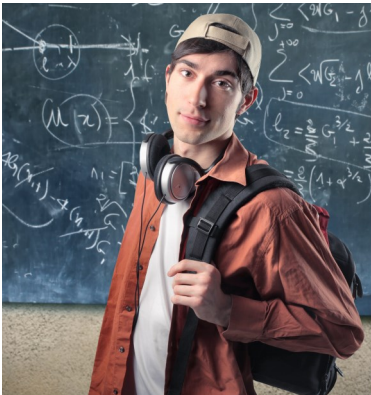
8th grade and up (or by approval) | M/W/F
August 4-8 | 1-4PM | \$200



Geometry

Geometry introduces students to experiences that deepen their understanding of two and three-dimensional objects and their properties. Deductive and inductive reasoning as well as investigative strategies in drawing conclusions are stressed.

8th grade and up (or by approval) | M/W
July 28-Aug. 6 | 1-3PM | \$250



Algebra II

The purpose of this introduction is to continue the study of algebra and to provide the foundation for applying algebraic skills to other mathematical and scientific fields. Algebra II students review of topics from Algebra I as well as many new topics such as matrices, complex numbers, polynomial and rational functions, logarithms, and basic trigonometry. Students communicate information mathematically, solve problems from a real world context and justify their solutions.

9th grade and up (or by approval) | T/TH
July 29-Aug. 7 | 1-3PM | \$250

Pre-Calculus

Pre-Calculus focuses on functions, their behavior, and their use in modeling “real-life” phenomena. Topics students will cover are similar to those in an Algebra II course, though Pre-Calculus goes beyond by delving deeper into functions as a group, as opposed to focusing strictly on the characteristics of a particular type of function. By the end of the course, students will have been introduced to the “toolkit” of functions that they will need to aid them in their study of Calculus.

10th grade and up (or by approval) | T/TH
July 29-Aug. 7 | 10-Noon | \$250

Guardian Name: _____

Email Address: _____

Phone Number: _____

To enroll, please call 707-474-4710 or stop by The Academy of 21st Century Learning with this form.

Payment options: VISA, MasterCard, AMEX, Discover, Cash, Check.

Name(s) of Child(ren):	Birthdate and Grade Entering
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Name of Class	
Week of	
Child's Name	

Name of Class	
Week of	
Child's Name:	

Name of Class	
Week of	
Child's Name	

Name of Class	
Week of	
Child's Name	

Name of Class	
Week of	
Child's Name	

Name of Class	
Week of	
Child's Name	

Policies & Procedures

Registration: Please complete the registration form and call or bring in to The Academy. Classes are filled on a first-come, first-served basis. Specialty classes have limited enrollment; early enrollment is recommended. In the event that the class you want to sign up for is full, your child will be placed on a waiting list.

Medical Conditions: Please submit a short note detailing your child's condition or limitations along with the registration form. This includes any food allergies as we may provide snacks in some classes as a part of the curriculum.

Discipline Policy: All campers have the right to enjoy a positive, healthy, and safe experience at The Academy. As a part of this right, all students are expected to follow and support our expectations of participation, positive attitude, and respectful behavior at all times. Behavior or language perceived by the staff to be disrespectful, hurtful, unsafe, or threatening may result in suspension or dismissal from the program. This extends to any behavior that undermines our goal to best serve the needs of all our students.

Attendance: Due to the nature of the Specialty Classes, no make-up classes will be available. **Students are expected to be dropped off and picked up no more than 10 minutes prior to and after classes.

Please note: There are no classes on Friday, July 4, 2014.