Upcoming Events & Programs:

Science Matters Registration

Registration Opens: Monday, February 3rd

Science Matters is a summer enrichment program for elementary students in rising grades 1-6 offering youngsters a supercharged science experience. The program allows participants to explore the world of science through real experiments, technology and art projects, and hands-on, make-n’-take activities. During this action-packed program, kids can design and build, dabble in the art of chemistry, “become a flight specialist”, see amazing critters, and more! Science Matters offers six different science-themed weeks for rising 1st-4th graders to choose from and four weeks for rising 5th-6th graders to enjoy. Parents may choose between the Regular Day option from 8am-3:30pm or the Extended Day option from 8am-5pm. Prices range from $170 –$240 per week/child. Multiple week discounts are available. Courses fill on a first-come-first-serve basis, so be sure to register today!

Program Fees Include:

- All materials
- Experienced science instructors
- Science Matters tote bag
- Morning and afternoon snacks
- Special Science Matters T-shirt
- Exploratory Activities (exclusive on-campus science tours, local trips, and/or great demo. shows)
Science Matters – Summer Dates/Courses

Week 1 – May 27 – 30, 2014*

1st – 2nd Grade: My Sensational Senses – Aleesa Zutter (Yarbrough Elementary School)
3rd – 4th Grade: Branching Out – Dr. Bruce Zutter (Ogletree Elementary School)
5th – 6th Grade: Farm to Food – Rebecca Balkcom (Auburn Junior High School)

Week 2 – June 2 – 6, 2014

1st – 2nd Grade: “Bugging” Out – Cathryn Albright (Dean Road Elementary School)
3rd – 4th Grade: Slimy Science: The Encore – Gina Watkiss (The Heritage School)
5th – 6th Grade: Amusement Park Adventure – Andrew Click (Sanford Middle School)

Week 3 – June 16 - 20, 2014

1st – 2nd Grade: Ticket to Travel – Amanda Morley (Yarbrough Elementary School)
3rd – 4th Grade: Culinary Chemistry – Rachel Newman (Yarbrough Elementary School)
5th – 6th Grade: Hot Wired – Frank Ware (Sanford Middle School-Retired)

Week 4 – June 23 – 27, 2014

1st – 2nd Grade: The Body Shop – Amanda Morley (Yarbrough Elementary School)
3rd – 4th Grade: The Hunger Games – Hilary Boyd (Auburn Junior High School)
5th – 6th Grade: Toying with Physics – Dr. Bruce Zutter (Ogletree Elementary School)

Week 5 – July 14 – 18, 2014

1st – 2nd Grade: Jurassic Park – Aleesa Zutter (Yarbrough Elementary School)
3rd – 4th Grade: LEGO Mania: Part Deux – Frank Ware (Sanford Middle School-Retired)
5th – 6th Grade: Healthy as a Horse – Casey Johnson (Loachapoka High School)

Week 6 – July 28 – August 1, 2014

1st – 2nd Grade: Rock Your World – Cathryn Albright (Dean Road Elementary School)
3rd – 4th Grade: Do you See What I See? – Hilary Boyd (Auburn Junior High School)
3rd – 4th Grade: The Underground Uncovered – Andrew Click (Sanford Middle School)

*This four-day camp is offered at a reduced rate.

Registration Information:
Full course descriptions, registration forms, and parent information will be available beginning on Monday, February 3rd at www.auburn.edu/cosam/sciencematters

For additional information contact:
Kristen Bond
db0022@auburn.edu
(334) 844-5769
Summer Science Institute
Summer Academy for High School Students
Application Deadline Extended Due to Inclement Weather
Extended Deadline: February 7, 2014

This summer science program is for outstanding students who are currently in the 10th or 11th grades and are interested in science and mathematics. Students engage in real-world applications of science, perform experiments using cutting edge research equipment, and partner with COSAM researchers to gain lab skills not taught in high school.

The program is offered at no cost to accepted students. Interested students will need to download the full application and recommendation forms from www.auburn.edu/cosam/ssi.

Required documents include the following:

• Completed & signed Application Cover Page
• A 1-2 page essay
• A résumé detailing qualifications and extracurricular activities
• High School Math and Science Course Plan
• Standardized assessment scores (ACT, SAT, PLAN, PSAT)
• 2 completed recommendation forms
  o 1 form to be completed by a teacher (non-relative)
  o 1 form to be completed by an adult other than a teacher (non-relative)
• A headshot photograph

Outreach Calendar

February
1 TASSAL
3 Science Matters Opens!
4 GUTS Opens!
15 Elem. Science Olympiad
18 GUTS

March
1 M.S. Science Olympiad
20 GEARSEF
GUTS
Getting Under the Surface
Registration Opens: February 4, 2014

GUTS is an evening program for 1st – 6th grade students and their parents or grandparents. Each evening session includes dessert followed by a 90-minute science activity featuring a “Getting Under the Surface” theme designed to demystify the science of topics ranging from DNA to creatures in the deep sea to how batteries work. The mission of GUTS is to enhance science literacy and engagement within our community by providing relevant science activities to students and their parents.

Spring GUTS Offerings:
Tuesday, February 18
1st – 3rd Grade: Rollercoaster Rally
4th – 6th Grade: That’s the way the ball...

Thursday, April 10
1st – 3rd Grade: Anatomy in Action
4th – 6th Grade: Boy, Oh Boy, Oh Buoyancy

Registration forms and full course descriptions will be available on Tuesday, February 4th at www.auburn.edu/cosam/guts

For more information contact:
Erin Percival
erin.percival@auburn.edu
334-844-7449

Robotics Academy
Registration Opens: March 3, 2014
June 24 – 27, 2014

The 4-day Robotics Academy (9am-4pm, daily) at Auburn University is aimed at rising 7th – 9th grade students interested in robotics. Working in teams, students will engage in real-world engineering scenarios that will culminate in a friendly competition on the last day of the academy. Students will be introduced to the engineering design process, the importance of engineering notebooks and technical writing, as well as gain hands-on experience programming and building robots using VEX robotics kits. All aspects of the engineering design process and engineering notebooks are a vital part of professional engineering, the programming portion teaches logic that is applicable to any other programming language, and the VEX robotics control system is used in other robotics competitions such as BEST Robotics. All necessary materials, including motors, gears, pulleys, wheels and axles, and microcontrollers will be available for student use during the academy.

Registration forms and full course descriptions will be available on Monday, March 3 at www.auburn.edu/cosam/roboticsacademy

For more information contact:
Amy Mathis
ajm0046@auburn.edu
334-844-7449
Activity of the Issue

Marble Maze

Materials:
- foam core board or cardboard
- a chair
- cardboard tubes
- poster putty
- string
- yarn
- fabric
- sandpaper
- bubble wrap (with little bubbles)
- construction paper
- masking tape
- marbles
- rubber ball
- ball of clay
- stopwatch
- ruler marked with inches

What to do:
1. Try to make a maze for a marble to go down s-l-o-w-l-y.
2. Have a friend make a maze too so you can compare your designs and results. Make sure the mazes are the same size and have the same steepness.
3. Then race. Whoever's marble finishes LAST is the winner.
4. On your mark, get set, slow down!

Extension:
1. Which materials worked best to slow down your marble?
2. Does the distance the marble travels affect how long it takes to finish the maze?
3. What changes to your designs did you make to slow your marble down?
4. Are there places in your maze where it travels especially fast or slow?
5. Why do you think that is?
6. How do you think gravity or friction is affecting the speed of your marble?
7. What other materials can you think of that will slow your marble even more?
8. Do you think some types of balls will roll faster through your maze than others?
9. Choose one thing-that's the variable-and make a prediction.

This activity was developed by PBS.org. For more fun activities visit: http://pbskids.org/zoom/activities/sci/marblema
Since the last issue

High School AMP’d Results

Junior Varsity
1st Place: Beauregard High School – Team Charlie
2nd Place: Beauregard High School – Team Delta
3rd Place: W.P. Davidson High School – Team Zulu

Varsity
1st Place: Saint James School – Team Sierra
2nd Place: Hoover High School – Team Kilo
3rd Place: Beauregard High School – Team Bravo

For more information about AMP’d visit our webpage
www.auburn.edu/cosam/ampd

E=mc² Engaging More Community Connections

For more information about any of our programs visit:
www.auburn.edu/cosam/outreach
call us at: 334-844-7449

Visit us on our new facebook page