

2018

SUMMER REGIONAL GOVERNOR'S SCHOOL

IMAGINE • CREATE • LEAD



MSiC
MathScience
Innovation Center
Imagine. Create. Lead.

About the Summer Regional Governor's School

The Virginia Department of Education and the MathScience Innovation Center support this special program for students in grades 6, 7 and 8th who are identified as gifted by their school divisions. Students choose from among six course offerings and explore the exciting worlds of math, science, and technology. All classes meet at the MathScience Innovation Center.

Choices for students currently in the 6th & 7th grades



CSI: Student Academy

In order to solve crimes, it takes the efforts of many individuals. Experience the different roles of crime scene investigators, detectives and forensic scientists and examine how the teamwork of these individuals can exonerate the innocent and convict the guilty. Become a crime scene investigator and search a simulated crime scene to collect evidence using authentic evidence collection procedures. Learn about techniques used by forensic specialists in a lab setting such as obtaining and examining latent prints, using serology, DNA and drug analysis and more to determine "who dunnit". Field trips and guest speakers will enhance this fascinating experience.



Prototyping Nature's Design

The fields of medicine and engineering are converging in a battle against the ravages of age, disease, and physical trauma. Join us as we explore concepts and techniques in biomechanics, biomedical engineering, and computer modeling. Become a biomedical engineer as you design, build, & test prosthetic devices using rapid prototyping technology such as 3-D printing. Come discover how new advances in tissue and body "replacement" may affect the quality of your life in the future.



The Next Giant Leap

Imagine the year is 2030. You are part of a team preparing for the first manned expedition to Mars. Mars promises to be a rich destination for scientific discovery and human exploration. As a vital team member, you will receive rigorous training in advanced imaging and robotics to help you plot the course for your crew of astronauts. As geologists, your team will be using innovative techniques to analyze rock samples. Could the analysis reveal evidence of life beyond Earth? What will the first human settlement on the red planet look like? Engineers and biologists on your team will need to design habitats that can withstand the ravages of deep space. A mission in the Challenger Center simulator will test your training. Are you ready to take the next giant leap in space exploration?

Choices for students currently in the 7th & 8th grades



A River Runs Through It

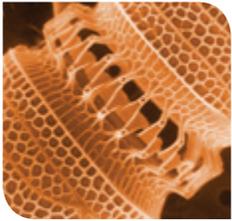
Flowing through Virginia from the mountains of the Blue Ridge to the salt marshes of the Chesapeake Bay, the James River tells a special story about the people, farms, towns, and cities that line its banks. To begin the story, you'll need to put on your wet boots and hop on a research vessel. Through a variety of lab experiments and outdoor field studies on and around the water, you will use probe ware and other field tools to conduct water quality and aquatic habitat research. Be an eco-innovator and see how innovative technologies are being used to maintain health and restore damaged river ecosystems. Please note that this course may include an overnight stay at a research facility.

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From the Ground Up

How do architects, interior designers and artists create buildings, rooms, and artistic products “from the ground up?” What skills are needed to turn inspiration into reality? Discover the language of architecture and the palette of design. Bring your knowledge of math, architecture, and art together and create a unique scale structure of your own. Watch your original creation rise up from blueprints, to elevations, to a 3-D model. Make your own stained glass and floor coverings as you develop ideas for an interior design board. Interact with professionals and learn their secrets for creating and implementing a successful project. Perhaps you will be the next Frank Lloyd Wright!



I Am Nano

Get the real scoop on nanobites and nanobots. Explore what’s hot and what’s really not nano in our world today. From the tiniest scale, learn how gecko’s climb and why mood rings really work. Find out how gold nanoparticles play a role in cancer medicine. Take a trip to a tissue engineering lab and watch how humans use biomimicry to recreate a silk worm’s thread. Check out your skills as a nanotechnologist as you filter gold nanoparticles, build liquid crystal thermo sensors, and spin “nanofibers”. Discover why nanoscience is the hot topic in today’s science world!

Eligibility & Registration Information

Students from 13 school divisions are eligible to participate: The counties of Charles City, Chesterfield, Dinwiddie, Goochland, Hanover, Henrico, New Kent, Powhatan, Prince George and the cities of Colonial Heights, Hopewell, Petersburg, and Richmond.

1. The Summer Regional Governor’s School 2018 will be held on June 25 - 29, July 2, 3, and 5, 2018. All classes will be held at the MathScience Innovation Center, 2401 Hartman St. Richmond, VA 23223. Classes will meet from 8:30 am to 3:00 pm. Students are expected to attend every day. Check your calendar carefully!
2. Your school’s gifted program teacher or guidance department has application packets. The application packet consists of teacher recommendations and a written essay. You may also download the packet from the MSiC web site: www.mysmic.org. Note that this program is for students identified as gifted by their school divisions.
3. Return the completed application packet to the gifted program teacher or guidance counselor in your school by February 20, 2018 or by the date set by your school.
4. The MathScience Innovation Center will notify students of acceptance through e-mail or US mail by April 11, 2018.
5. For additional information contact:
 - Debbie Mitchell: Phone (804) 343-6525, Ext 80243, Web: dmitchell@mysmic.org
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Division Contacts

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