

# Math, Science, & Technology Magnet



## The Program

The Yorktown Elementary Magnet School provides students in grades 1–5 with enriched instructional opportunities with an emphasis on scientific inquiry, mathematical problem solving, and the engineering design process. Topics are designed to encourage critical thinking and prepare students for globally relevant careers. As young mathematicians and scientists expand their learning horizons, they develop collaborative problem-solving skills and an interdisciplinary approach to learning. Students complete rigorous learning modules through the nationally recognized STEM program, Project Lead the Way.

## Eligibility

Current Yorktown Elementary students will attend the magnet school unless opted out by their parents or guardians. The remaining slots may be applied for by other YCSD elementary students and York County residents who are currently enrolled in private schools through the Out-of-Zone application process. Non-county residents may attend on a tuition-basis.

## Out-of-Zone Application Process

The division's Out-of-Zone application can be found on the division's website under Enrollment/Attendance Zones. These applications are accepted beginning February 1 through June 1 for the upcoming school year. Completed applications should be submitted to the Student Services Department at the School Board Office or emailed directly to: [ooz@ycsd.york.va.us](mailto:ooz@ycsd.york.va.us). Approval of applications will be based on student good standing and space availability in the grade level of the requested school. Approved magnet school students do not need to re-apply for out-of-zone placement each school year.



## Curriculum Connections

The Math, Science & Technology Magnet integrates math and science into the other academic areas of English, reading and history through the use of technology and multi-disciplinary activities. This integrated approach exposes students to traditional courses, such as physical education, music, art and library, with the addition of a STEM lab using the nationally recognized Project Lead the Way program.

### STEM

- Nationally recognized program, Project Lead the Way
- Integration across the curriculum
- STEM design challenges and scheduled instruction in Makerspace
- STEM Resource Class
- Technology integration
- Focus on the engineering design process

### Technology

- Robotics
- E-Missions
- Technology Application Lessons
- Coding/Programming Robotics (Code & Go Mice, Dash & Dot, BeeBots, Sphero, Ozobot, VEX, EV3 Lego, Parrot Drones, Hummingbird)
- Digital Breakout
- Virtual Reality

### Math and Science

- Star Lab Planetarium
- Classroom hands-on investigation
- Monarch Initiative
- Student Bayport Credit Union branch
- Number talks
- Financial Literacy Lessons
- Entrepreneur club
- Environmental Science Exploration

### Partnerships

- Virginia Institute of Marine Science
- NASA
- Virginia Air and Space Museum
- Virginia Living Museum
- Jefferson National Accelerator Facility
- BayPort Credit Union
- Waterman's Museum



**For more information:** Dr. Kristin Bolam, EdD., *principal* | 757-898-0358 | [kbolam@ycsd.york.va.us](mailto:kbolam@ycsd.york.va.us)

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