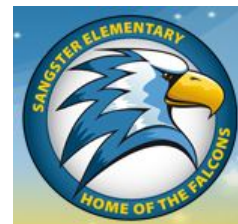


SANGSTER PTA sponsored courses stemexcel.org/sangster



Class size: up to 40 students. This course is sponsored by Sangster PTA.

No refunds or exchanges offered.

Emergency contact info must be filled out during registration for each student who attends this course.

If you have any questions, please contact PTA afterschool coordinator, Nancy Tray, nancydrew303@yahoo.com

SPRING 2018 | Electronics with Minecraft Redstone:

THURSDAY MORNINGS, 7:45am-8:45am • April 12-May 31, 2018 •

Tuition: \$160 • 8 meetings, 1 hour per meeting • Grades 1st-4th • Cafeteria

STEM exCEL's Electronics with Minecraft Redstone allows students to explore electronics in a virtual world with essentially infinite resources. Using Minecraft's Redstone blocks, which act as wires on a breadboard, students can build constructs representing electrical circuits and simple computer projects that are built in the real world. This course is a great precursor to

understand real circuitry, electronics and electrical theory. This course allows students to gain an understanding of how computers are processing commands.

SPRING 2018 | Robotics:

TUESDAYS, 3:55pm-5:25pm • April 10-May 29, 2018 •

Tuition: \$180 • 8 meetings, 1 hour 30 minutes per meeting • Grades 3rd-6th • Cafeteria

STEM exCEL Robotics is designed for students looking to get started with robotics, and who are possibly interested in learning competitive robotics. In this course, students learn how to design, build, and program Lego Mindstorms EV3 robots by constructing and programming a robot. By applying engineering concepts as well as advanced sensor programming skills, students will perfect their design and programming to solve a variety of

challenges. These engineering, design and programming concepts serve as a great stepping stone for students that have an interest in competing in robotics competitions such as First Lego League (FLL).

Registration is Open!

Please go to www.stemexcel.org/sangster to register.

About the Computer & Coding Club program:

The program aims to align STEM education through beginner to advanced computer science and coding opportunities. In subsequent after-school enrichment sessions this year and going forward, Game Design, Website Design, Java, Python, Electronics, Robotics, Raspberry Pi, 3D Printing and Minecraft Modding opportunities may be offered per PTA feedback.

Contact us: 571-349-0048 • info@stemexcel.org • Visit us: www.stemexcel.org • This Information is neither sponsored nor endorsed by the Fairfax County School Board, the Superintendent, or this school.