



# Computer & Coding Club

[www.svespta.com](http://www.svespta.com)



Class size: 14-20 students. This course is sponsored by the Sunrise Valley 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 coordinator, Gamble Gilbertson, [EnrichmentSVESPTA@gmail.com](mailto:EnrichmentSVESPTA@gmail.com)



## WINTER 2017 | Intro to Computer Science & Coding:

**MONDAY MORNINGS, 8:15am-9:10am • Jan 30-Apr 3, 2017 • no class on Feb 6 & 20**  
**8 meetings, 1 hour per meeting • Grades 1<sup>st</sup>-4<sup>th</sup> • CLASSROOM 217**

Students will be introduced to Computer Science and its processes, receiving an understanding of programming and computational thinking. Through behind-the-computer projects and online & offline group and individual activities, students will learn algorithms, functions, variables, conditionals, abstractions and more in a fun environment. Students will experience developmental and project teamwork as they translate problems into graphical and written programs.

**Registration closes on Wednesday, January 25th.**



## WINTER 2017 | Electronics with Minecraft Redstone:

**FRIDAY MORNINGS, 8:15am-9:10am • Feb 3-Mar 31, 2017 • no class on Mar 24**  
**8 meetings, 1 hour per meeting • Grades 3<sup>rd</sup>-6<sup>th</sup> • CLASSROOM 206**

STEM exCEL's Electronics with Minecraft Redstone allows students to explore electronics in a virtual world with essentially infinite resources. Using Minecraft's system of wires called Redstone, students can build constructs representing electrical circuits and simple computer projects that are built in the real world. This course is a great precursor for students to get an initial understanding of circuitry, electronics and electrical theory to understand virtually how real circuits, switches, bread boards, etc. are used. This course allows students to gain an understanding of how computers are processing commands as they move on to other computer science studies.

**Registration closes on Wednesday, January 25th.**

**Registration:** Please go to [Pay4SchoolStuff.com](http://Pay4SchoolStuff.com).

### About STEM exCEL:

STEM exCEL guides and mentors students to obtain a foundation in computer science and coding so they may excel in Science, Technology, Engineering and Mathematics (STEM). Whether students are future computer scientists, inventors, artists, farmers or entrepreneurs, STEM exCEL's goal is to prepare them to follow their aspirations.

**Contact us: 703-828-4119 • [info@stemexcel.org](mailto:info@stemexcel.org) • Visit us: [www.stemexcel.org](http://www.stemexcel.org) • This Information is neither sponsored nor endorsed by the Fairfax County School Board, the Superintendent, or this school.**