



# INTRO TO COMPUTER SCIENCE



## CONNECTIONS

“Computer science is a great way to apply problem solving skills to a variety of different problems. Even if you don’t want to become a programmer, it teaches you to identify what do you know, what’s not working and what can you do to fix it.



## HS CONNECT

- Shadle Park High School offers a variety of STEM courses:
- PLTW Computer Science Essentials
  - PLTW Computer Science Principles- AP
  - Computer Science- AP
  - Web Design
  - PLTW Cybersecurity



## PARTICIPATION EXPECTATIONS

- Students use a variety of technology in class including Micro:bits, Spheros, and iPads. They must follow the Equipment Expectations.
- Students work on the computer to code their devices and develop an app.
- Students want to learn more physical computing, coding and app development.
- Be willing to work with others.

## COURSE DESCRIPTION

Intro to Computer Science is a **one semester** class. The class introduces students to the basics of block coding and physical computing. Students will learn about flowcharting, algorithmic thinking, and building with the Micro:bit. These concepts will be applied as you design devices that solve real world problems. If time allows, students will get to learn about app creation using the MIT App Inventors program.

## WHY CHOOSE INTRO TO CS?

You want to learn more about **coding**, **building devices** that use a Micro:bit, and **creating apps**, **editing** and **stop motion**. You enjoy working **computer** and **problem solving** then CS is for you!

## Learn How To...

- Program a Micro:bit.
- Program a Sphero to complete a obstacle course.
- Create a flowchart that connects to the code you program.
- Debug a program and brainstorm possible fixes.
- Design your own app.



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