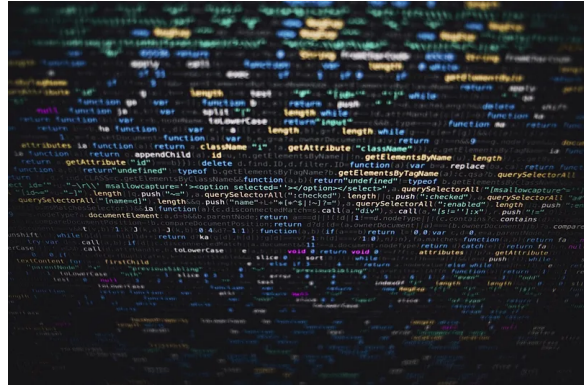


CODING

Information sourced from [Grasshopper](#) and [Computer Science](#)

What is coding?

Coding, which can also be called computer coding, is how we communicate with computers. As time has passed, we have been able to communicate with more than computers; we have been able to communicate with technology such as phones, mini devices, tablets and even gaming devices. Codes can tell a device what actions to take, and these codes are almost written in instructions that the device understands. By learning how to code, you can tell devices what to do, or how to behave in a better way (like Team 5's performance in Immersion Assembly), and at a faster pace. You can use this skill to make websites and apps, process data, and do lots of other cool things.



Why learn coding?

Coding is an important skill to learn, especially at a digital school. Most of the things that we do in our school help us to create things online, and at times require a code. So why should we learn how to code? Thinking about your future, have you ever wanted to make an app or a website? Code does that. It can also help you automate a spreadsheet or create new tools for your community. Learning to code makes it possible to imagine the things you want to make and actually build them. Have you ever met a coder who regretted learning to code? Probably not, because learning to code is fun and empowering! Coding also opens up a whole new community and network for you. In fact, we've heard the term "addictive" regularly.

Some Popular Programming Language and their Uses

- *C*: Used for developing software operating systems and databases
- *Python*: Used for building websites and software programs and performing data analysis
- *HTML*: Used for creating the structures of a webpage, like paragraphs, links, and tables
- *Ruby on Rails*: Used for developing websites and applications and performing data analysis
- *C++*: Used for creating and developing games
- *C#*: Used for creating desktop applications and web services
- *Scala*: Used for data engineering, data processing, and web development support
- *Perl*: Used for text manipulation, web development, and network programming
- *PHP*: Used for managing databases and creating dynamic web pages
- *SQL*: Used for communicating with databases and managing and organising data
- *JavaScript*: Used for creating web pages and supporting front-end and back-end development
- *Swift*: Used for creating apps, most commonly for Apple platforms
- *Objective-C*: Used for writing software for Apple products