

OVERVIEW

In Year 7 students develop a range of skills that allow them to get a better understanding of different sectors of computing and ICT. Students will begin to develop their skills in three main areas: Digital Literacy, ICT and Computer Science.

Year 7 students will be taught how to use computers and online features safely, making them aware of the dangers that can arise and using social media responsibly. Students will also develop their creative digital skills by developing a range of products with a focus on graphic editing and the presentation of information on a digital document.

ICT

Impact of the Technology - Collaborating online respectfully

- Creating secure passwords and logging onto the school system
- Communicating with emails (creating folders, sending, receiving, saving attachments Netiquette)
- Navigating TEAMS (Assignments, One Drive, Class Notebook)
- Accessing learning platforms
- Online Safety - Cyberbullying, sexting, grooming, catfishing
- How to play online respectfully
- How to identify fake news

Assessment:

Creating a prototype for a mobile phone application teaching their peers the dangers, how to keep safe online and how to report any issues.

Computer Science

Computer Science and Programming

Computational thinking and introduction to programming.

- Problem solving (Blockly)
- Decomposition Developing complex algorithms (problem solving)
- Understanding the terms, selection and how they apply to programming.
- Flowcharts
- BBC Microbits block coding - creating and testing programs
- Explain/debug how variables are used in programs
- Write programs that use random number variables
- Practical experience of writing computer programs in order to solve problems.

Assessment:

Practical assessment using Blockly.

Practical assessment creating and debugging Microbit program.

Useful resources for supporting your child at home:**Programming:**

Useful resources for supporting your child at home:

-Teaching coding made easier (TurningLab) <https://www.turinglab.co.uk/>

-BBC Microbit <https://microbit.org/>

- hour of code <https://hourofcode.com/uk>

Graphics:

[Sue Farrimond Tutorials - Creating Media Products \(google.com\)](#)