Overview

In Year 9 students develop a range of skills that allow them to get a better understanding of different sectors of computing. Students will begin to develop their skills in 3 main areas: Digital Literacy, ICT and Computer Science. The students build upon previous skills learnt to develop and enhance their knowledge and understanding. For example, developing Python in year 7 through to year 8 and 9. Students will further develop their graphic skills and understanding of iMedia theories which will support their understanding of the relationship between the media product, audience and purpose.

Autumn

Unit 9.1 Cyber Security
- Ethical use of computer systems
- Hacking and ethical hacking
- Data breaches/theft
- Cyber security, malware, social engineering

Unit 9.2 Web Page Creation
- Evaluate webpages
- HTML, hyperlinks, roll over banners
- Creating a interactive media product

Assessment:
- End of Unit assessment (Online/Written)
- **Section A** – short knowledge recall questions which interleave previous topics.
- **Section B**- Practical assessment- (Website Creation)
- **WCF (whole class feedback)**

Spring

Unit 9.3 Programming
- Input data (using input function, variables, casting), Output data (using print function, use of arithmetic operators)
- Sequence, selection and iteration (IF-ELSE, and IF ELIF-ELSE)
- Counter-controlled iteration (For loops), Condition-controlled iteration (WHILE loops), Turtle (Turtle module)

Unit 9.4 Spreadsheets
- Introduction to spreadsheets, row, columns, formulae
- Use of random numbers and making decisions
- Macros

Assessment:
- End of Unit assessment (Online/Written)
- **Section A** – short knowledge recall questions which interleave previous topics.
- **Section B**- (spreadsheet tasks)
- **WCF (whole class feedback)**

Summer

Unit 9.5 iMedia (Graphics)

- Puff/pug/plug, creating a masthead
- Editing digital images (rubber tool mastering layers (Surrealism Photography)
- Typography, drop cap, house Style

Unit 9.6 iMedia (Theory) Case Study

- Client brief
- Target Audience, purpose, genre, secondary research.

Assessment:
- End of Unit assessment (Online/Written)
- **Section A** – short knowledge recall questions which interleave previous topics.
- **Section B**- Practical assessment- (Film Analysis)
- **WCF (whole class feedback)**

Useful resources for supporting your child at home:

Forms of attack - System security - OCR - GCSE Computer Science Revision - OCR - BBC Bitesize

Sue Farrimond Tutorials - Creating Media Products (google.com)

App: (FREE)
Pixlr, Snapseed