



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.

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Unit 9.1 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)

Assessment:

End of unit assessment (Online/practical written assessment- Programming challenges)

Whole Class Feedback

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Unit 9.2 iMedia (Theory)

- Camera shots and angles
- Case study (film)
- Representation (Gender, stereotypes, counter stereotypes)
- Characterisation-STEAL

Unit 9.3 Cyber Security

- Ethical use of computer systems
- Hacking and ethical hacking
- Data Breaches/Theft, cybersecurity

Assessment:

End of unit assessment (Online written assessment-ethical use of computers, data breaches, cyber security)

Whole Class Feedback

Sum

Unit 9.4 iMedia (Graphics)

- Creating a masthead
- Puff/pug
- Interleaving
- Editing digital images
- Double exposure
- Rubber Tool Mastering Layers (Surrealism Photography)
- Practical case study-Magazine (Client brief, generating ideas- mood boards, visualisation)

Assessment:

End of unit assessment (Online written assessment-case study evidence of masthead, skills/tools, layout, house style)

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 \(google.com\)](#)