



Curriculum Overview

Subject: Computing

Year: 9

Rationale: Pupils will develop their skills and understanding of a range of topics that cover Computer Science, Digital Literacy and Information Technology. This will provide the foundation of the skills required for Key Stage 4 both academic and vocational pathways.

Units of Work	
1	Business Documents
2	Encryption
3	Advanced Graphics - PhotoPlus
4	Python
5	Web Design
6	Game Development

SMSC/British Values/Careers:

- Highlight links to careers where appropriate
- Discussion tasks to promote cooperation and appreciation for the views of others.
- Group work activities.

Key Knowledge development:

- Pupils can understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation
- Pupils can analyse problems in computational terms, and will create programs in Python to solve problems
- Pupils will understand how the Internet works including the risks and dangers along with the benefits it can bring.
- Pupils will extend their understanding of Legislation relevant to Computing including Data Misuse and its role in Cyber Security.
- Pupils will develop the creative side of Information Technology and be able to recognise the correct tools for different problems.
- Pupils will understand the role of Information Technology in Business.

Key Skills development:

- Pupils will be competent in Business IT Skills in MS Office and the Internet.
- Pupils will be Advanced Python Coders.
- Pupils will be able to understand techniques used in Cyber Security including Encryption.
- Pupils will become competent in Digital Graphics skills using PhotoPlus.
- Pupils will develop skills in Website Design and development.

Literacy/Numeracy:

- Subject specific key words
- Command words

Assessment

Each topic will have a Pre-Assessment Quiz to gauge existing Knowledge.

Each topic has an end of topic test.

Each Topic will have one piece of assessed work.

Homework to support

Curriculum enrichment:

Potential ideas

Cyber Security Trip

Cyber Day

Year 9 Club

