



Curriculum Overview

Subject: Computing

Year: 7

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	Computer Basics
2	Web & E-Safety
3	Scratch
4	Binary & Data
5	Algorithms
6	Turtle

SMSC/British Values/Careers:
<ul style="list-style-type: none"> Highlight links to careers where appropriate Discussion tasks to promote cooperation and appreciation for the views of others. Group work activities.

Key Knowledge development:
<ul style="list-style-type: none"> 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 have experience of writing computer programs in Scratch to solve problems Pupils will understand the Internet including the risks and dangers along with the benefits in can bring. Pupils can evaluate and use different forms of information technology, including new or unfamiliar software. Pupils are responsible, competent, confident users of technology

Key Skills development:
<ul style="list-style-type: none"> Basic Computer Skills including using the School Network, Office Applications and the use of the Internet. A wider skill in being a responsible Computer User. Development of Programming skills in Scratch. Binary Conversion. Computational Thinking and Algorithm Design and Testing. Basic Python Skills.

Literacy/Numeracy:
<ul style="list-style-type: none"> Subject specific key words Command words

Assessment
Each topic will have a Pre-Assessment Quiz to gauge existing Knowledge.
Each topic will have an end of topic test.
Each Topic will have one piece of assessed work with detailed feedback.
Homework to support

Curriculum enrichment:
Potential ideas
Cyber Security Trip
Cyber Day
Year 7 Club

