

Computing Key Stage 3

All pupils receive one dedicated computing lesson a week.

Year 7 content

Autumn Term
<ul style="list-style-type: none">Scratch <i>Building on programming skills previously learnt in key stage 2</i>Binary and Python <i>Developing computing knowledge about Binary and introduction to programming language Python</i>
Spring Term
<ul style="list-style-type: none">Spreadsheet skills <i>Building on spreadsheet skills previously learnt in key stage 2, looking at formula and charts</i>Micro Bits <i>Programming the Micro bits – investigating a variety of different programming techniques</i>
Summer Term
<ul style="list-style-type: none">Micro Bits <i>Programming the Micro bits – investigating a variety of different programming techniques</i>Digital Media <i>Developing a digital media product to promote online safety.</i>

Year 8 content

Autumn Term
<ul style="list-style-type: none">Binary, Hexadecimal and Python <i>Developing computing knowledge about Binary, Hexadecimal and building on previous learning of Python programming language</i>Flowol <i>Developing knowledge about algorithms and investigating flowcharts, the symbols used and creating flowcharts for different scenarios.</i>
Spring Term
<ul style="list-style-type: none">Micro Bits <i>Programming the Micro bits – investigating a variety of different programming techniques</i>Computing past, present and future <i>Develop an understanding about the history of computing, how it has developed today and how it is developing into the future.</i>

Summer Term

- Website Creation (HTML)

Developing website creation skills. Pupils will create a website for a specific scenario thinking about target audience

Year 9 content**Autumn Term**

- Python

Developing python programming knowledge and skills. Building on previous knowledge learnt in year 8

- Computing Components & Ethics

Develop an understanding as to how computers work and investigating the components within a computer. Looking at the ethics of computing investigate a range of morale dilemma's surrounding computing

Spring Term

- Computational Thinking

Developing an understanding about thinking like an electronic device and understanding how they work. Learning about flowcharts and pseudocode

- Computing past, present and future

Develop an understanding about the history of computing, how it has developed today and how it is developing into the future.

Summer Term

- Sound and Video Editing

Using video and audio software to edit and create sound effects and edit videos for a specific audience

Approaches to Teaching and Learning within Computing.

The department builds on improving the pupil's computing skills by using a variety of different teaching and learning methods:

- Peer and self – assessment.
- Verbal and written feedback.
- Teacher and pupil skills demonstrations.
- Risk – taking when using a variety of different programming languages.
- Collaborative learning activities