

Subject Name:	Computer Science and Information Technology
Curriculum Intent Statement	
<p>Our intention is to equip pupils to develop their computational thinking skills and creativity to solve a variety of problems. To build an understanding of the workings of digital systems and the importance of online safety and its impact. Our teaching of both Computing and ICT will provide students with the future-proof skills and knowledge of using and creating digital technologies that will prepare and enable them to fully participate in a technology-driven world.</p>	
Autumn Term 1	
<p>Mini project – Animal shelter</p> <ul style="list-style-type: none"> • Investigation, survey and results analysis • Logo and digital web banner • Shelter financial model • Shelter report 	
Autumn Term 2	
<p>Mini project – Animal shelter</p> <ul style="list-style-type: none"> • Digital poster • Video advert • Website • Evaluation 	
Spring Term 1	
<p>Programming – textual and graphical</p> <ul style="list-style-type: none"> • Flowchart algorithm for program • Create calculator program • Design quiz user interface • Extend program to add more interactivity • Create full maths quiz program 	

Spring Term 2

Data representation

- Data represented in binary form
- Binary shifts
- Adding binary numbers
- Data conversions, binary, denary, hex
- ASCII table
- Images as binary

Summer Term 1

Ethical, legal, environmental concerns

- Ethics and computer science technologies
- Environmental concerns
- Digital divide
- Privacy issues
- Legal considerations

Summer Term 2

Designing for HCI

- Operating system interfaces
- Designing an operating system interface
- Producing a wireframe
- Testing, evaluation and iteration