

Curriculum plan: Computing

Connected



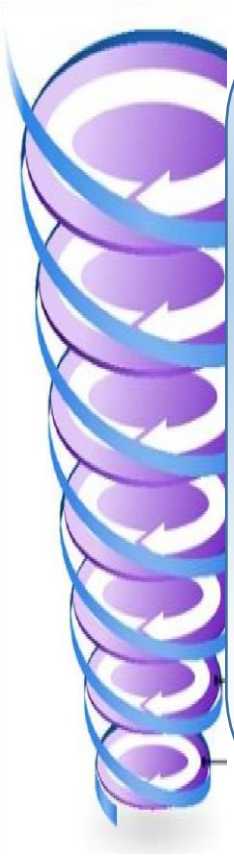
INTENT:

"I do not fear computers, I fear the lack of them"

Isaac Asimov

The use and understanding of computers gives learners the opportunity to develop sector specific knowledge and skills in a practical learning environment. Can you solve problems? Are you a computational thinker? Do you have a scientific and mathematical way of thinking?

Computers are changing every part of our lives at an ever increasing rate why not drive the future?



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****Please click on the icons to access our online portal where you can learn more about each topic****

Half term points

AUTUMN 1

Digital Organisation
Introduction to
Esafety



Learning to include:

- Folder structure & Organisation
- School online platforms
- dangers or using email and the internet
- mobile phone technology
- flaming,



AUTUMN 2

Algorithms



Learning to include:

- computational thinking to problem solve
- Key concepts include: decomposition, abstraction and algorithms



SPRING 1

Scratch & Python
Turtle



Learning to include:

- understand scratch interface
- sequence, selection and iteration
- use of variables
- create a program using key constructs



SPRING 2

Spreadsheets



Learning to include:

- label parts spreadsheets
- use of simple formulas and functions
- create suitable and meaningful graphs/charts
- if statements and conditional



SUMMER 1

Digital graphics



Learning to include:

- theory into vector and bitmap images
- theory into compression and resolution
- identify different image formats
- photo editing skills using



SUMMER 2

IMP & Touch
Typing













Learning to include:

- basic Word formatting techniques
- advanced word formatting techniques
- Use of templates
- Formatting techniques in PowerPoint
- Use of hyperlinks



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Half term points

	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
8	Online Safety  Learning to include: <ul style="list-style-type: none"> what cyberbullying is and the different types various types of social networks explaining the dangers of each what grooming is and how it can occur 	Computer systems  Learning to include: <ul style="list-style-type: none"> input, output devices and their uses storage devices components of a PC introduction to binary 	Web design & HTML  Learning to include: <ul style="list-style-type: none"> purpose and component features of websites planning of different website scenarios learn the basic constructs of a HTML web page build a mini website using Adobe Dreamweaver 	Python programming  Learning to include: <ul style="list-style-type: none"> what Python programming is create a basic program, which will display a message to a user create a program, which stores information using variables create a program, which uses both sequence and selection 	Databases  Learning to include: <ul style="list-style-type: none"> different features of a database and uses creating a database and import data into the database creating queries based on a set scenario create a data input form 	Computing in Society  Learning to include: <ul style="list-style-type: none"> Current developments in technology. Future technology Benefits and drawbacks of technological development Ethical of technological development 





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Half term points

	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
9	iMedia in the industry	Systems Architecture	Digital Graphics	Interactive digital media	Project (controlled assessment tasks)	Project (controlled assessment tasks)
	<p>Learning to include:</p> <ul style="list-style-type: none"> Documents used to support ideas generation Distribution platforms and media to reach audience Properties and formats of media files 	<p>Learning to include</p> <ul style="list-style-type: none"> Understand the basics of a computer system. Identification of computer systems in society Discover the role of the Central processing unit Input-processoutput 	<p>Learning to include:</p> <ul style="list-style-type: none"> Tools and techniques of imaging editing software used to create digital graphics Purpose and Target audience of digital graphics Client requirements and planning techniques for a digital graphic 	<p>Learning to include:</p> <ul style="list-style-type: none"> Tools and techniques of multimedia software used to create interactive multimedia product Methods of Internet connection types Hardware devices & Software used to connect with the internet 	<p>Learning to include:</p> <ul style="list-style-type: none"> Purpose, elements and design of visual identity Graphic design and conventions 	<p>Learning to include:</p> <ul style="list-style-type: none"> Properties of digital graphics and use of assets Techniques to plan visual identity and digital graphics