

Year	Autumn	Spring	Summer
7	E-Safety <ul style="list-style-type: none"> including cyber bullying and digital footprints. Office Skills <ul style="list-style-type: none"> including email, Teams and online systems use. 	E-Safety <ul style="list-style-type: none"> including cyber bullying and digital footprints. Introduction to Computer Systems <ul style="list-style-type: none"> including hardware, software, storage devices, networks and network security. 	E-Safety <ul style="list-style-type: none"> including cyber bullying and digital footprints. Photoshop <ul style="list-style-type: none"> looking at image manipulation in the media and using skills learnt to create an image based on a given scenario. Scratch <ul style="list-style-type: none"> a block-based visual programming language where students learn coding concepts and develop a game based around the classic PONG theme.
8	E-Safety <ul style="list-style-type: none"> including body image and social media. Intermediate Computer Systems	E-Safety <ul style="list-style-type: none"> including body image and social media. Vector Graphics	E-Safety <ul style="list-style-type: none"> including body image and social media. GameMaker

	<ul style="list-style-type: none"> including binary, sorting algorithms, network topologies, computer logic and data representation. 	<ul style="list-style-type: none"> including digital graphic properties, branding and image editing skills. Cyber Security <ul style="list-style-type: none"> discovery of techniques that cybercriminals use to steal data, disrupt systems, and infiltrate networks. 	<ul style="list-style-type: none"> a high-level visual programming language where students learn coding concepts, basic scripting and develop a maze game of their own theme, similar to that of PAC MAN.
9	E-Safety <ul style="list-style-type: none"> including grooming, inappropriate content and messaging. Python <ul style="list-style-type: none"> including sequence, selection, iteration and string manipulation. 	E-Safety <ul style="list-style-type: none"> including grooming, inappropriate content and messaging. Photoshop <ul style="list-style-type: none"> looking at image manipulation in the media and using skills learnt to create an image based on a given scenario. 	E-Safety <ul style="list-style-type: none"> including grooming, inappropriate content and messaging. Digital Literacy Skills <ul style="list-style-type: none"> students will be empowered with knowledge and skills to enable them to be exceptional digital citizens of today's digital world.
10	Systems architecture <ul style="list-style-type: none"> including the CPU, its purpose and how it impacts performance, Von Neumann Architecture and embedded systems. 	Programming fundamentals <ul style="list-style-type: none"> including sequence, selection, iteration and string manipulation. Computer networks	Ethical, legal, cultural & environmental impacts of Digital Technology Programming fundamentals

	Memory and storage <ul style="list-style-type: none"> including primary, secondary, units, data representation and compression. 	<ul style="list-style-type: none"> connections and protocols including types of factors effecting the performance of hardware required for networks. Also, network topologies and methods of connection. Network security <ul style="list-style-type: none"> including threats to computer systems and how to protect against vulnerabilities. Systems software <ul style="list-style-type: none"> including both operating, application and utility software. 	<ul style="list-style-type: none"> including sequence, selection, iteration and string manipulation.
11	Programming fundamentals <ul style="list-style-type: none"> including sequence, selection, iteration and string manipulation. Additional programming techniques <ul style="list-style-type: none"> including records to store data, SQL, arrays and subprograms. Producing robust programs <ul style="list-style-type: none"> including defensive design and testing. 	Component 1 and Component 2 revision.	Component 1 and Component 2 revision.

	<p>Boolean logic</p> <ul style="list-style-type: none"> including common arithmetic operators. <p>Programming languages and Integrated Development Environments</p> <ul style="list-style-type: none"> including characteristics of purpose of and facilities available in. 		
--	---	--	--

Curriculum Overview – Computing- Biddick.