		Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 7	Торіс	Introduction to Computing	Digital literacy	Computer systems	Block based programming	Digital enterprise - IDEA Bronze Award	Vector graphics
		Students will familiarise themselves with the systems used at Shenfield, and be taught how to navigate technology safely	Students will explore various software packages, including Word, Powerpoint and Excel	Students will be introduced in the fundamentals of computer systems, looking at hardware, software, storage and binary	Students will be introduced to the key fundamentals of programming via code.org's express programming course	Students will work towards an online qualification, called IDEA. Students will complete numerous online challenges based around being a digital citizen and digital worker	Students will learn to create vector graphics
	Assessment	Google forms	Google forms quiz	Google forms	Google forms	Google forms	Google forms
		quiz		quiz	quiz	quiz	quiz
		When? Last week of half term	When? Last week of half term	When? Last week of half term	When? Last week of half term	When? Last week of half term	When? Last week of half term
		Contents: - How to stay safe online - Online risks - Features of a computer (desktop, tabs, menus etc)	Contents: - Key features of Word - How to compose professional emails - Key features of Powerpoint -How to use basic formula and functions in Excel	Contents: - Identifying hardware, software and storage components -Converting from binary to denary and vice versa -Binary addition	Contents: - Identify examples of variables, sequencing, selection and iteration -Predict outputs of programmes	Contents: - Cyber security -eSafety - Social media ethics - Digital ethics	Contents: - End of year quiz recapping all of the key content covered over the year

	PREP	Revision for assessment	Revision for assessment	Revision for assessment	Revision for assessment	Revision for assessment	Revision for assessment
Year 8	Торіс	Network security Students will explore what a compute network is, and how it can be vulnerable to hackers	Gaining support for a business Students will come up with their own business idea, and then use various software packages to gain support for their business	Boolean logic Students will learn about Boolean logic, and how computers are designed using this logic	Programming in Python Students will apply their fundamental knowledge of programming to Python, a common text based programming language	Digital enterprise - IDEA Bronze Award Students will work towards an online qualification, called IDEA. Students will complete numerous online challenges based around using technology to make content as well as using technology in business	Animations Students will learn to create animations that they commonly see in films and TV programmes
	Assessment	Google forms quiz	Google forms quiz	Google forms quiz	Programming project	Google forms quiz	Google forms quiz
		When? Last week of half term Contents: - Identify key network threats -Identify how to prevent being a victim of network threats	When? Last week of half term Contents: - Key features of Word - How to compose marketing emails - Key features of Powerpoint -How to use more advanced formula and functions in Excel	When? Last week of half term Contents: - Identifying AND, OR, NOT gates - Be able to complete truth tables	When? Last week of half term Contents: - Students will be asked to programme a car using Python turtle. Students will have their projects marked to assess their use of key programming skills,	When? Last week of half term Contents: - Problem solving -Social media in business - Coding	When? Last week of half term Contents: - End of year quiz recapping all of the key content covered over the year

	PREP	Revision for assessment	Revision for assessment	Revision for assessment	such as using variables, loops and subroutines Revision for assessment		Revision for assessment
Year 9	Торіс	Your data	Spreadsheets	How data is represented by a computer	Programming in Python	Digital enterprise - IDEA Silver Award	Hour of code programming challenges
		Students will explore why social media is free, and how big tech companies use our data, and for what purpose	Students will learn how to use functions and formula to analyse data	Students will explore how computers store different forms of data	Students will develop their programming in Python knowledge by exploring sequencing, selection and iteration in more detail	Students will continue to work towards an online qualification, called IDEA. Students will complete numerous online challenges based around being a digital citizen and entrepreneur	Students will finish their KS3 Computing journey by completing various programming challenges, practising both their programming skills as well as their problem solving skills
	Assessment	Essay	Google forms quiz	Google forms quiz	Programming project	Google forms quiz	Google forms quiz
		When? Last week of half term	When? Last week of half term	When? Last week of half term	When? Last week of half term	When? Last week of half term	When? Last week of half term
		Contents: - Students will be asked to write an essay style answer explaining their opinion on big tech companies using our data	Contents: - How and when to use MIN,MAX,AVERAGE,SUM,COUNT AND COUNTIF -How to use + - / *	Contents: - How sound, images and text are stored by computers -How to convert between binary, denary and	Contents: - Students will create a 10 question general knowledge quiz, using Python, that gives feedback on user answers, as well as keeping track of their score.	Contents: - Problem solving -Time management -Market research - Financial investment	Contents: - End of year quiz recapping all of the key content covered over the year

	PREP	Revision for assessment	Revision for assessment	hexadecimal numbers Revision for assessment	This will test their ability to use variables, if else statements and loops, as well as their ability to debug and problem solve Revision for assessment	Revision for assessment	Revision for assessment
Year 10	Topic	2.4 – Boolean Logic 1.2.4 – Data storage - numbers	2.2.1 – Programming fundamentals 2.2.2 – Data types	2.2.3 – Additional programming techniques 1.2.4 – Data storage – images, sound, characters 1.2.3 - Units	1.2.5 – Compression 1.1 – Systems architecture	2.1 – Designing, creating and refining algorithms	Pre mock revision Pre mock review and consolodation
	Assessment	Past paper covering how numbers are stored by a computer, as well as logic gates and truth tables	Past paper covering different types of data and their applications, as well as how to use sequence, selection and iteration When? Between week 4-6 of the half term	Past paper covering sequence, selection and iteration, as well as how images, sound and characters are stored by a computer. Units of storage and their	Past paper covering how files are compressed, as well as the components of a CPU, and factors that effects its performance	Past paper covering the features of a bubble, merge and insertion sort, as well as a binary and linear search.	Past paper covering all topics covered up to this point When? Between week 4-6 of the half term

	When? Between week 4-6 of the half term		conversions are also covered When? Between week 4-6 of the half term	When? Between week 4-6 of the half term	When? Between week 4-6 of the half term	
PREP	Practise questions	Practise questions	Practise questions	Practise guestions	Practise questions	Practise questions
Торіс	1.2.1 – Primary storage 1.2.2 – Secondary storage 1.3 – Networks	1.3 – Networks 1.6 – Ethical, legal, cultural and environmental impacts of technology	1.4 – Network security 1.5 – System software	 2.3 – Producing robust programmes 2.5 – IDEs 	Revision	
Assessment	Past paper covering RAM, and ROM, as well as the characteristics and need for secondary storage	Past paper covering all aspects of networking, as well as ethical, legal, cultural and environmental issues surrounding technology	Past paper covering network threats and their preventions, as well as system and utility software.	Past paper covering maintainability and defensive design, as well as features of an integrated development environment.	Past paper covering all topics covered up to this point	Ρ
	When? Between week	When? Between week 4-6 of the half term			Between week 4-6 of the half term	
	Topic	Between week 4-6 of the half termPREPPractise questionsTopic1.2.1 - Primary storageTopic1.2.2 - Secondary storageAssessmentPast paper covering RAM, and ROM, as well as the characteristics and need for secondary storageMemoryWhen?	Between week 4-6 of the half termPractise questionsPractise questionsPREPPractise questionsPractise questionsTopic1.2.1 – Primary storage1.3 – Networks1.2.2 – Secondary storage1.6 – Ethical, legal, cultural and environmental impacts of technologyAssessmentPast paper covering RAM, and ROM, as well as the characteristics and need for secondary storagePast paper covering all aspects of networking, as well as ethical, legal, cultural and environmental issues surrounding technologyWhen?When? Between week 4-6	Between week 4-6 of the half termalso coveredPREPPractise questionsWhen? Between week 4-6 of the half termPREPPractise questionsPractise questionsPractise questionsTopic1.2.1 – Primary storage1.3 – Networks1.4 – Network security1.2.2 – Secondary storage1.6 – Ethical, legal, cultural and environmental impacts of technology1.5 – System softwareAssessmentPast paper covering RAM, and ROM, as well as the characteristics and need for secondary storagePast paper covering all aspects of networking, as well as ethical, legal, cultural and environmental issues surrounding technologyPast paper covering and need for secondary storageWhen?When? Between week 4-6When? well as system and utility software.	Between week 4-6 of the half termalso coveredWhen? Between week 4-6 of the half termPREPPractise questionsPractise questionsPractise questionsPractise questionsTopic1.2.1 - Primary storage1.3 - Networks1.4 - Network security2.3 - Producing robust programmesTopic1.2.2 - Secondary storage1.6 - Ethical, legal, cultural and environmental impacts of technology1.5 - System software2.3 - Producing robust programmesAssessmentPast paper covering RAM, and ROM, as well as the characteristics and need for secondary storagePast paper covering all aspects of networking, as well as ethical, legal, cultural and environmental issues surrounding technologyPast paper covering network threats and their preventions, as well as system and utility software.Past paper covering maintainability and defensive design, as well as features of an integrated development environmentalWhen?When? Between week 4-6Viting softwarePast paper covering not work threats and their preventions, as well as system and utility software.Past paper covering not work threats and their preventions, as well as system and utility software.Past paper covering not work threats and their environment.	Between week 4-6 of the half termBetween week 4-6 of the halfBetween week 4-6 of the halfPractise questionsPractise questionsPractise questionsPractise questionsPractise questionsPractise questionsPractise questionsPractise questionsPractise questionsPractise practise termPractise questionsPractise practise guestionsPractise practise guestionsPractise practise guestionsPractise practise guestionsPractise practise <b< td=""></b<>

		4-6 of the half term		When? Between week 4-6 of the half term	When? Between week 4-6 of the half		
					term		
	PREP	Practise	Practise questions	Practise	Practise	Practise	Practise
		questions		questions	questions	questions	questions