

## Year 9 Option

### Intent:

The intent of this course is to build passion for computer science as well as give them an insight into more advanced aspects of computer science

		Weeks																																										
Staffing	W/C	1				2				3				4				5				6				7				8														
		24th July - 19th July				27th August - 18th October				4th November - 20th December				6th January - 14th February				24th February - 4th April				22nd April - 13th June				23rd June - 18th July																		
		24-Jun	01-Jul	08-Jul	15-Jul	27-Aug	02-Sep	09-Sep	16-Sep	23-Sep	30-Sep	07-Oct	14-Oct	04-Nov	11-Nov	18-Nov	25-Nov	02-Dec	09-Dec	16-Dec	06-Jan	13-Jan	20-Jan	27-Jan	03-Feb	10-Feb	24-Feb	03-Mar	10-Mar	17-Mar	24-Mar	31-Mar	22-Apr	28-Apr	05-May	12-May	19-May	26-May	02-Jun	09-Jun	23-Jun	30-Jun	07-Jul	14-Jul
ECA	Academic Plan	Internet safety				How a computer works and where in your life you use them								The connected world, and helping yourself to be safe							Website design with analysis of good and bad websites						Introduction to programming. GUI --> Command line						Researching the world of phone/tablet app and how th developers make money. Then designing and creating a basic app											
		Summer Holiday (5 weeks)				Half Term (2 weeks)								Half Term (2 weeks)							Christmas Holiday (2 weeks)						Half Term (1 week)						Easter (2 weeks)								Half Term (1 week)			
		Slack	Protect your stuff with passwords	Stay safe online and don't lose your money	Keep your devices working well	What makes a computer	Where are computers used	What's inside a personal computer (PC)	How does a computer start and run	Saving and seeing your files	Building a computer	Troubleshooting a PC	Slack	How do computers talk	Computer system attacks	Protecting your stuff	Social media	Hacking	Help your self	Slack	Good and bad websites	What makes a good website	Designing a website	Creating a website from the plans	Slack	Programming with Scratch	Programming with Microbits	Programming with Python	Slack	What makes a good and bad app	Money and fame from Apps	Design a simple app	Create an app from a design	Test and improve the app.	Slack	Slack								

### Sequence of Units:

The sequence of the units is designed to build on prior knowledge and build up design and programmig skills where the final unit of work will encapsulate the design, programming and safety aspects covered in previous units.

### Implementation:

Course materials are pre-prepared for all units in line with the sequence and presented to the pupils via teams where suitable.

Further resources may be handed to pupils in paper format.

The teacher will monitor and formatively assess during lesson time.

### Recall of Material:

Topics will build on previous lessons, topics and units and relevant knowledge will be revisited in those lessons.

Final course project will assess the recall of all topics and demonstrate developed skills.