Year 8 Computer Science

Intent:

Students will develop skills learn in year 7 ICT as well as introducing basic computer science alongside terminology and skills

This will include different programming types as well as programming principles.

They will also develop knowledge in the hardware and software and link these to programming.

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Starring							30th August - 20th October								7th November - 22nd December						8th January - 9th February					19th February - 28th March					15th April - 14th June						25th June -			
		26-Jun	lut-£0	10-Jul	17-Jul		28-Aug	04-Sep	11-Sep	18-Sep	25-Sep	02-Oct	09-Oct 16-Oct		voN-90	13-Nov	20-Nov	04-Dec	11-Dec 18-Dec		00	15-Jan		29-Jan 05-Feb		19-Feb	26-Feb	04-Mar	18-Mar 25-Mar		15-Apr	22-Apr	29-Apr		20-May	27-May	03-Jun 10-Jun		24-Jun 01-Jul 08-Jul	
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						we	Internet Safety						sks	Programming				g	>		Algorithms & Boole			olean $\stackrel{\frown}{\mathbb{A}}$		Effective internet use			(S		Hardware			e, Software & Da		ata	eek)	Personal project	⇒	
DFR	Academic Plan	Into and expectations		introduction to Graphical programming	Slack time	Summer Holiday (5	Slack - Into	How the online world is different to real	System Security	Password and physical security	Social media and reality	Understanding online information	Internet Safety Topic assessment	Half Term (2 weeks)	Introduction to Programming	GUI programming (Scratch & Microbits)		Command line programming (Python)	Programming assessment	Christmas Holiday (2		Sorting algorithms	Boolean Logic	Algorithm & Boolean Assessment	Half Term (1 we	Senione Caree	Legal implications	Basic Website Design	Search and identify Assessment	Easter (2 weeks)	Motherboard and CPU	Primary Storage	a	Units of Measure & Binary to denary cor	Character sets Pictures	spunos	Assessment	Half Term (1 we	Create a number of documents to scenario	Summer Holiday

Sequence of Units:

The sequence of units maps closely to the computing curriculum and topic order is based on natural flow of learning.

Implementation:

Course materials are developed based on lessons from external recourses that are complimented and adapted but personal planning and resource development.

The unites are set, delivered and marked online

End of unit assessment is completed online and is a mixture and tests and document creation assessments

Assessments are teacher assessed with data recorded online.

2 week assessment blocks to allow for catchup/slack, can be compressed to a single week

Recall of Material:

They are revisiting aspects of the Year 7 curriculum and as part of the lessons, looking back to previous lessons and topics.

Mock examinations will be analysed with the students and will inform next steps for progress in terms of content/ technique.