## Curriculum Area - IT

## Overview 2021/22

The skills and knowledge being taught in each half term for each year group.

	HT1	HT2	HT3	HT4	HT5	HT6
Year 7	This is the first unit	This unit look looks	This unit introduces	Once of the	Student study	This unit is based
	of work which	at the devices/	the students to	elements of	scratch (graphical	around data. We
	students will	components which	computational	computation	programming	look at how data is
	complete in Y7. It is	make up a	thinking and the	thinking which	language) and	used and
	based around	computer system.	main 4 corner	students covered	understand the	processed. This
	understanding how	There is a section	stones. They	last term was	main purpose of	ensures students
	to use a computer	on peripheral	develop	algorithms. This	the software. It is	are aware of how
	safely.	devices, internal\	transferable skills	unit will look	an introduction to	to keep data safe
	Students are also	external devices	on the key corner	deeper into	simple	and which software
	introduced to One	which make up a	stones of	algorithms and the	programming.	packages are used
	Drive and how it is	range of computer	computational	main features of 2		for handling data.
	used to save work	systems from PC /	thinking which	different types of		
	/how to work from.	Games consoles/	include:	algorithms:		
	This will ensure	EPOS systems.		Pseudo code		
	home learning can		Decomposition	Flowcharts		
	take place with		Pattern			
	confidence.		recognition			
	Students also look		Abstractions			
	a range of different		Algorithm			
	software packages		design			
	and how to use					
	them for certain		This unit gives			
	tasks. They also		students the skill			
	cover the basic		set to approach any			
	principles of using a		problem/ task in a			
	computer safely.		meaningful way.			
	HT1	HT2	HT3	HT4	HT5	HT6
Year 8	Students look at	Students look at	This unit of work is	This is the next	This unit students	This unit of work
	the basic	how data is	based around	stage of the digital	will start to create	will be based upon

	components which make up computer system architecture. They look at the components which are involved and how they come together to perform tasks for the user.	represented within a computer system. They look at the concept of binary and understand why everything which is within a computer system must be converted to binary.	completing a range of different planning documentation in preparation for creating a digital project.	project where students take the planning documents which they have created in HT3 and start to design the project outline, content creation and review of designs.	their final product based on the planning documents and feedback from their peers.	the client brief changing from the one which was given to students at the start of HT3. They will have to discuss the best way to change and amend the digital project completed in HT5 to meet the target audience and new client brief.
	HT1	HT2	HT3	HT4	HT5	HT6
Year 9	This topic is based around the main features of Boolean logic and the gates which are used. By the end of the unit students will understand what Boolean logic is and why it is important within a computer system.	This topic is based around the main features of Boolean logic and the gates which are used. By the end of the unit students will understand what Boolean logic is and why it is important within a computer system.	This is a continuation of the algorithm topic which was started in HT4 in Y7. Students recap the basic concepts of algorithms and now look at the sorting and searching features which algorithms can be used for and why they are used.	E safety topic based around social media and online profiles/ footprints.	This topic is based around creating a promotional banner for a specific design brief.	This topic will be a present, review and evaluate project when students will have the chance to present their promotional banner to their peers, get feedback, evaluate and improve overall design.