

## Hallaton CE Primary School – The Big Picture - Computing

Our Over-arching Curriculum Intent	That every child grows a	and flourishes through	h enjoying le	earning and has a	access to a rich, r	ounded, cor	nnected, coherent and	d progressive curriculum
Aims of our Curriculum	To develop successful, engag enjoy learning and who are kn skilled, make progress and achie potential	To develop independent, confident, articulate individuals, who can lead safe, healthy and fulfilling lives in the communities in which they live now and in the future		To develop responsible, happy citizens of the world who have the capacity to make positive contributions to society				
Core School Value	Learn, Grow, Flourish							
Learning Powers	Be Responsible	Be Respect	ful Be Resilient		В	e Reflective	Be Remarkable	
The Intrinsic Core: Our Computing Intent.	To be able to programme using web-based software.		To be able to use applications to create digital content.		To develop digital literacy skills to collect and connect safely.			
We will develop the knowledge and skills that children need	Develop children's vocabulary acquisition and oracy skills so that they can articulate their thoughts both verbally and in written form, in order to communicate effectively in a range of situations.			Provide opportunities for children to be exposed to a wide variety of cultures, topics, themes and points of view to counter-balance the lack of diversity in our local demographic at our largely white British school,				
to succeed	order to communicate effectively in a range of situations.				in order to prepare them for life in modern Britain.			

## How we organise learning in Computing, through the development of Big Ideas

Pupils revisit these five key areas throughout KS1 and KS2. Each time a key area is revisited, it is covered with greater complexity. Upon returning to each key area, prior knowledge is utilised so pupils can build on previous foundations, rather than starting again.

Explore and Investigate Whole	Computing systems	Programming	Creating media	Data Handling	Online Safety
School Big Ideas	& networks				
Aspects of	Identifying hardware and	Understanding that a computer	Learning how to use	Ensuring that	Understanding the
knowledge that may	using software, while	operates on algorithms, and	various devices — record,	information is collected,	benefits and risks of
be included:	exploring how computers	learning how to write, adapt	capture and edit content	recorded, stored,	being online — how to
	communicate and connect to	and debug code to instruct a	such as videos, music,	presented and analysed	remain safe, keep
	one another.	computer to perform set tasks.	pictures and photographs.	in a manner that is	personal information
				useful and can help to	secure and recognising
				solve problems.	when to seek help in
					difficult situations.

The Big Ideas are Develop understanding over time of Three Key Themes of Schema	<ul> <li>developed through the understanding</li> <li>Information Technology</li> <li>Can evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems.</li> </ul>	<ul> <li>Computer Science</li> <li>Can understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation.</li> <li>Can analyse problems in computational terms, and have repeated practical</li> </ul>	<ul> <li>Digital Literacy</li> <li>Are responsible, competent, confident and creative users of information and communication technology.</li> </ul>
		experience of writing computer programs in order to solve such problems.	

## Implementation: How do we deliver our Curriculum?

Early Years	Children's development will be supported as they make sense of their physical world and their community through a variety of activities and experiences that reflect upon the Characteristics of Effective Teaching and Learning, including opportunities to explore, observe and find out about people, places, technology and the environment. Our EYFS lessons are a natural precursor to our Year 1 Computing plans. They are designed especially for the Reception classroom and are play-				
	based, hands-on and fun! A full outline of the EYFS specifically linked to Computing can be found in our Computing Overview and End Points document.				
Progression	Progression in Learning from Reception to Year 6 is outlined in our Computing Overview and End Points document.				
Key Stage One	Year A 2023-4	Year B (2023-4 YR2), 2024-5			
Disciplinary	Online Safety: Online security	Online Safety: Online security			
Knowledge – In the	Taught at the start and throughout the year including Internet Safety	Taught at the start and throughout the year including Internet Safety Day			
context of	Day				
		Programming:			
	Computing systems and networks:	Algorithms & Debugging			
	Improving Mouse Skills	Programming Scratch Junior			

**Programming:** Algorithms unplugged Programming Bee-Bots

**Creating media:** Digital Imagery

Data handling: Introduction to data **Computing systems and networks:** What is a computer? Word processing

**Creating media:** Stop Motion Animation

Data handling: International Space Centre

**Retrieval practice:** 

Other opportunities for computing will arise through other curriculum subject lessons, for example, internet research to find images, taking photos on the tablets, simple Word and PowerPoint documents for publishing writing in other areas of the curriculum.

Lower Key Stage Two	Year A -2023-4		Year B - 2024-5				
Disciplinary	Online Safety: Fake news, the dangers of Social media		Online Safety: Online search results & bots				
Knowledge – In the context of	Taught at the start and throughout the year including Internet Safety Day		Taught at the start and throughout the year including Internet Safety Day				
	Computing systems and networks:		Computing systems and networks:				
	Networks		Collaborative Learning				
	Emailing		Computational Thinking				
	Programming:		Programming:				
	Scratch		Scratch				
	Creating media:		Creating media:				
	Video Trailers		Website Design 3D Modelling				
	Data handling:		Data handling:				
	Comparison cards databases		Investigating weather				
	Retrieval practice:		l				
	Other opportunities for computing will arise through other curriculum subject lessons, for example, internet research for self-study, use of digital images (copying,						
	pasting, cropping and manipulating) publishing writing in English and presenting information etc.						
Upper Key Stage Two	Year A - 2023-4		Year B - 2024-5				
Disciplinary	Online Safety: Online presence and cyberbullying		Online Safety: Digital reputation and online security				
Knowledge – In the			afety Day Taught at the start and throughout the year including Internet Safety Day				
context of	Computing systems and networks:		Computing systems and networks:				
	Computing systems and networks: Search Engines		Bletchley Park				
	Programming:		Programming:				
	Scratch – programming music		Introduction to Python Creating media:				
	Micro:bit						
	Creating media:		History of Computers				
	Stop Motion Animation		Data handling:				
	Data handling: Mars Rover 1		Data handling: Big data 1 & 2				
	Retrieval practice:						
	Other opportunities for computing will arise through other curriculum subject lessons, for example, presentations, graphs in maths, internet research for self-study,						
	use of digital images (copying, pasting, cropping and manipulating), iMovie editing for assemblies and drama, publishing writing in English etc.						
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Impact	Most children achieve the End Point Milestones For Computing						
	Children become						
	Reflective, engaged learners who enjoy learning and who are	Resilient, articulate, in	dependent individuals, who can lead	Responsible and respectful citizens of the			
	knowledgeable and skilled make progress and show how safe, healthy and fulfilling		Iling lives in the communities in which world who have the capacity to make positive				
	remarkable they are.	they live now and in th	ne future. contributions to society.				