

EYFS	Computing in the EYFS is centred around play-based, unplugged (no computer) activities that focus on building children's listening skills, curiosity and creativity							
	and problem solving.							
	Technology in the Early Years means for example:							
	•taking a photograph with a cam <mark>era or tablet</mark>							
	• searching for information on th <mark>e internet</mark>							
	• playing games on the interactive whiteboard							
	•using a Beebot							
	watching a video clip							
	Iistening to music							
	• controlling toys with a remote control							
	•using technology though role play eg mobile phone, camera, microwave, ovens, broken devices							
	 using technology equipm 	• using technology equipment to measure units of time eg stop watches.						
	Autumn A	Au <mark>tu</mark> mn B	Spring A	Spring B	Summer A	Summer B		
Year 1	Computing systems and	Progra <mark>mm</mark> ing 1:	Skills showcase:	Programming 2:	Creating media:	Data handling:		
	networks:	Algorithms unplugged	Rocket to the moon	Bee-Bots	Digital imagery	Introduction to data		
	Improving mouse skills	Learning how	Appreciating the value	Using Bee-Bots to	Taking and	Learning about what		
	Introducing children to	computers h <mark>andle</mark>	of computers,	navigat <mark>e an</mark> area and	manipulating digital	data is and how it can		
	logging in and using	information by	understanding that they	constructing simple	photographs, including	be represented and		
	technology for a	exploring 'unplugged'	helped us get to the	algorithms, through the	adding images found via	using these skills to		
	purpose, including	algorithms- completing	moon.	story of The Three Little	a search engine.	show the findings of a		
	creating art.	tasks away.		Pigs.		mini beast hunt.		
Year 2	Computing systems and	Programming 1:	Computing systems and	Programming 2:	Creating media:	Data handling:		
	networks 1:	Algorithms and	networks 2:	ScratchJr	Stop motion	International Space		
	What is a computer?	debugging	Word processing	Using 'ScratchJr', pupils	Pupils create simple	Station		
	Children explore what a	Identifying problems	Using their developing	programme a familiar	animations, plan a	Learn how data is		
	computer is, learning	with code using both	word processing skills,	story and an animation,	storyboard, then	collected and used to		
	about inputs and	'unplugged' and	pupils write simple	make their own musical	decompose it into small	keep astronauts safe on		
	outputs, how	'plugged' systems to	messages to friends and	instruments and follow	chunks of action to be	the I.S.S.		
	computers are used in	debug (identify and	learn why we must be	an algorithm.	captured.			
	the wider world and	correct) errors in an	careful about who we					
	designing an invention.	algorithm. 💦 🦳	talk to online.					

*Online Safety module to run throughout the year.

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Subject Overview: Computing

	Autumn A	Autumn B	Spring A	Spring B	Summer A	Summer B
Year 3	Computing systems and	Programming:	Computing systems and	Computing systems and	Creating media:	Data handling:
	networks 1:	Scratch	networks 2:	networks 3:	Video trailers	Comparison cards
	Networks and the	Usin <mark>g S</mark> cratch, with its	Emailing	Journey inside a	Developing their video	databases
	internet	bloc <mark>k-b</mark> ased approach	Pupils learn how to send	computer	skills, pupils create a	Developing their
	To understand how	to co <mark>di</mark> ng, pupils learn	emails, including	Children learn abou <mark>t th</mark> e	book trailer,	understanding of data
	computers	to tel <mark>l st</mark> ories and create	attachments and how to	different parts of a	storyboarding their	and databases, children
	communicate, children	s <mark>im</mark> ple games.	be responsible digital	computer through <mark>rol</mark> e-	trailers before then	play with and create
	learn about networks		ci <mark>tizen</mark> s.	play and develop t <mark>he</mark> ir	filming and editing their	their own comparison
	and the internet, and			understanding of how	videos, adding effects	cards, learning how to
	how they are used to			they follow instructions.	such as transitions,	interpret information by
	share information.				music, voice and text.	ordering and filtering
Year 4	Skills showcase:	Computing systems and	Programming 1:	Creating media:	Programming 2:	Data handling:
	HTML	ne <mark>two</mark> rks:	Further coding with	Website d <mark>esig</mark> n	Computational thinking	Investigating weather
	Pupils explore the	Collaborative learning	Scratch	Pupils design and create	Through developing	Children investigate the
	language behind well-	Learning <mark>to work</mark>	The coding program	their own websites,	their understanding of	role of computers in
	known websites, while	collaborativ <mark>ely</mark> in a	Scratch is explored	considering content and	the four pillars of	forecasting and
	developing their	responsible way using	further by revisiting key	style <mark>, as</mark> well as	computational thinking,	recording weather as
	understanding of how	tools, including	features and	understanding the	children learn to	well as how technology
	to change the core	Microsoft Form and	introducing the children	importance of working	identify them in	is used to present
	characteristics of a	spreadsheets.	to the concept and	collaboratively	different contexts	forecasts.
	website using HTML and		execution of using			
	CSS		'variables' in code.			
Year 5	Computing systems and	Programming:	D <mark>ata handling:</mark>	Programming:	Creating media:	Skills showcase:
	networks:	Music	Mars Rover 1	Micro:bit	Stop motion animation	Mars Rover 2
	Search engines	Composing music using	Pupils explore inputs	Programming a small	Collaboratively creating	Children learn how the
	Enable children to	code through Sonic Pi or	and outputs as well as	device called a micro:bit	a stop-motion	Mars Rover is able to
	quickly and accurately	Scratch pupils can	binary numbers to	to display animations or	animation by sharing	send images all the way
	find information and	compose simple tunes	understand how the	messages on its simple	and then decomposing	back to Earth and
	become independent	culminating in a 'battle	Mars Rover transmits	LED display using block	their ideas. Pupils will	experiment with online
	learners, develop their	of the bands' using		coding.	develop their ability to	CAD software to design
	searching skills and	loops of music	dant		edit and improve their	new tyres for it
	learn how to identify	Cont	Ident Le	earner	creations	
	trustworthy sources.)		5		

*Online Safety module to run throughout the year.



Heald Place Primary School

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	Autumn A	Autumn B	Spring A	Spring B	Summer A	Summer B
Year 6	Computing systems and	Programming:	Data handling 1:	Data handling 2:	Creating media:	Skills showcase:
	networks:	In <mark>tro to Python</mark>	Big Data 1	Big Data 2	History of computers	Inventing a product
	Bletchley Park	Introd <mark>uc</mark> tion to the text-	Children learn how	Children learn the	Learn about Bletchley	Reflecting on and
	Investigate secret codes	bas <mark>ed</mark> programming	data is collected and	difference between	Park, including: key	showcasing their
	and how they are	langu <mark>ag</mark> e Python, which	stored by exploring	mobile data and Wi <mark>F</mark> i	historical figures, how	computing skills, pupils
	created, exploring	is th <mark>e la</mark> nguage behind	barcodes, QR codes and	and how data is	the first modern	create an entire project
	'brute force' hacking	many apps and	RFID chips, and	transferred and use	computers were	around a specific
	and learn how to make	pr <mark>ogr</mark> ams, such as	investigate how	their understandin <mark>g o</mark> f	created, how computers	theme.
	passwords more secure.	Dropbox	collecting big data can	big data to design <mark>th</mark> eir	have evolved over time.	
			be used to help people	own smart sch <mark>ool</mark> .		
	Significant Person –		in a variety of different			
	Alan Turing		scenarios.			

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Every Child a Confident Learner