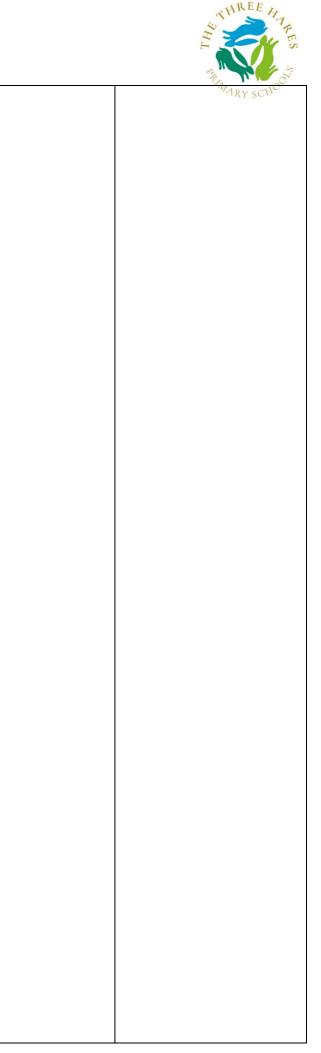
Subject	Knowledge	Skills
	E Safety	Computer Science
Computational Thinking		
Design, write and debug programs that	• I protect my password and other personal information.	Usuduses
ccomplish specific goals, including controlling or	I can explain the consequences of sharing too much	Hardware
imulating physical systems; solve problems by	about myself online.	•• Learning about
lecomposing them into smaller parts	I support my friends to protect themselves and make	the history of
	good choices online, including reporting concerns to an	computers and
	adult.	how they have
Jse sequence, selection, and repetition in	I can explain the consequences of spending too much	evolved over time • Using the
programs; work with variables and various forms	time online or on a game.	understanding of
of input and output	I can explain the consequences to myself and others of	historic computers
	not communicating kindly and respectfully.	to design a
lea logical reasoning to explain how some simple	I protect my computer or device from harm on the Internet.	computer of the
Jse logical reasoning to explain how some simple		future
algorithms work and to detect and correct errors	Programming	Learning how
n algorithms and programs	 I can deconstruct a problem into smaller steps, 	barcodes, QR
	recognising similarities to solutions used before.	codes and RFID
Computer Hardware and Digital Literacy	I can explain and program each of the steps in my	work
Understand computer networks including the	algorithm.	Learning about
internet; how they can provide multiple services,	I can evaluate the effectiveness and efficiency of my	some of the
such as the world wide web; and the opportunities	algorithm while I continually test the programming of that	methods which
they offer for communication and collaboration	algorithm.	cause data
	I can recognise when I need to use a variable to achieve	corruption
Use search technologies effectively, appreciate	a required output.	Networks and Data Representation
how results are selected and ranked, and be	• I can use a variable and operators to stop a program.	• Understanding that
discerning in evaluating digital content	I can use different inputs (including sensors) to control a	computer networks
discerning in evaluating digital content	device or onscreen action and predict what will happen.	provide multiple
	I can use logical reasoning to detect and correct errors in a	services
Select, use and combine a variety of software	algorithms and programs.	
		Computational Thinking
(including internet services) on a range of digital	Handling Data	Decomposing a
devices to design and create a range of	 I can plan the process needed to investigate the world 	program into an
programs, systems and content that accomplish	around me.	algorithm
given goals, including collecting, analysing,	 I can select the most effective tool to collect data for my 	• Using past
evaluating and presenting data and information	investigation.	experiences to
	 I can check the data I collect for accuracy and plausibility. 	help solve new
Use technology safely, respectfully and	 I can interpret the data I collect. 	problems
responsibly; recognise acceptable/unacceptable	 I can present the data I collect in an appropriate way. 	Writing
behaviour; identify a range of ways to report	 I use the skills I have developed to interrogate a 	increasingly
concerns about content and contact.	database.	complex algorithms
		for a purpose
	Multimedia	
	 I can talk about audience, atmosphere and structure 	Programming
	when planning a particular outcome.	Debugging quickly
	 I can confidently identify the potential of unfamiliar 	and effectively to
	technology to increase my creativity.	make a program
		more efficient
	I can combine a range of media, recognising the aparticular automa	Remixing existing
	contribution of each to achieve a particular outcome.	code to explore a
	I can tell you why I select a particular online tool for a	problem
	specific purpose.	Using and adapting
	I can be digitally discerning when evaluating the	nested loops
	effectiveness of my own work and the work of others.	Programming
		using the language
	Technology in Our Lives	Python
	I can tell you the Internet services I need to use for	Changing a
	different purposes.	program to
	I can describe how information is transported on the	personalise it
	Internet.	Evaluating code
	 I can select an appropriate tool to communicate and 	to understand its



Key Vocabulary	

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	 collaborate online. I can talk about the way search results are selected and ranked. I can check the reliability of a website. I can tell you about copyright and acknowledge the sources of information that I find online. I know that websites can use my data to make money and target their advertising 	 purpose Predicting code and adapting it to a chosen purpose Altering a website's code to create changes Information technology Using Software Using logical
Information technology		thinking to explore software independently, iterating ideas and testing continuously • Using search and word processing skills to create a presentation • Planning, recording and editing a radio
		 Play Creating and editing sound recordings for a specific purpose Creating and editing videos, adding multiple elements: music, voiceover, sound, text and transitions
		to create a video advert • Using design software TinkerCAD to design a product • Creating a website with embedded links and multiple pages Using Email and Internet
		Understanding how search engines work Using Data • Understanding how barcodes, QR codes and RFID work
		 Gathering and analysing data in real time Creating formulas and sorting data within spreadsheets Digital Literacy
		Wider Use of technologyLearning about the



	Internet of Things and how it has led
	and how it has led
	to 'big data'. • Learning how 'big data' can be used
	Learning how 'big
	data' can be used
	to solve a problem or improve efficiency
	or improve efficiency
	Digital Literacy
	Understanding the importance of
	the importance of
	secure passwords
	and how to create
	them
	• Using search
	engines safely and effectively
	enectively
	Recognising that updated software
	updated software
	can help to prevent data corruption and hacking
	data corruption and hacking

