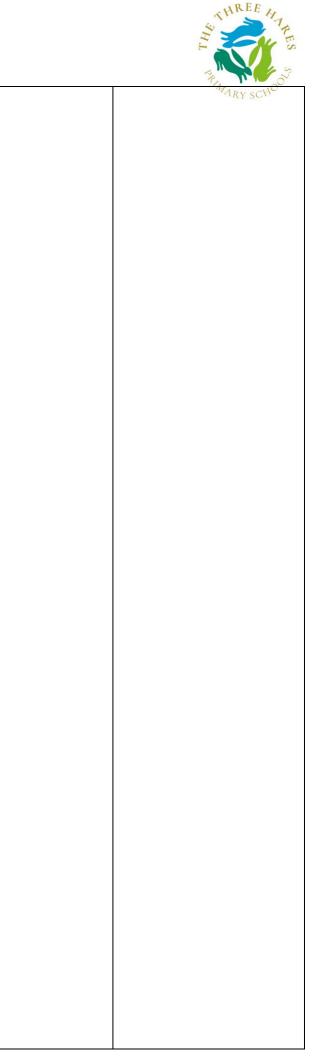
Subject	Knowledge	Skills
	E Safety	Computer Science
Computational Thinking	a Loop abaaaa a accura passward and acroop name	
Design, write and debug programs that	 I can choose a secure password and screen name. I protect my password and other personal information. 	Hardware
accomplish specific goals, including controlling or	 I can explain why I need to protect myself and my friends and 	Learning that external devices can be
simulating physical systems; solve problems by	the best ways to do this, including reporting concerns to an	programmed by a
decomposing them into smaller parts	adult.	separate computer
	 I know that anything I post online can be seen, used and may 	Learning the
	affect others.	difference between
Use sequence, selection, and repetition in	• I can talk about the dangers of spending too long online or	ROM and RAM
programs; work with variables and various forms	playing a game.	Recognising
of input and output	• I can explain the importance of communicating kindly and	how the size of
		RAM affects the
Use logical reasoning to explain how some simple	 I can discuss the importance of choosing an age-appropriate 	processing of data
algorithms work and to detect and correct errors	website, app or game.	• Understanding
in algorithms and programs	 I can explain why I need to protect my computer or device 	the fetch, decode,
	from harm.	execute cycle
Computer Hardware and Digital Literacy		Networks and Data Representation
Understand computer networks including the		• Learning the
internet; how they can provide multiple services,	Programming	vocabulary
such as the world wide web; and the opportunities	• I can decompose a problem into smaller parts to design an	associated with
they offer for communication and collaboration	algorithm for a specific outcome and use this to write a	data: data and
	program.	transmit
Use search technologies effectively, appreciate	• I can refine a procedure using repeat commands to improve	Learning how the data for digital
how results are selected and ranked, and be	a program.	images can be
discerning in evaluating digital content	• I can use a variable to increase programming possibilities.	compressed
discerning in evaluating digital content	• I can change an input to a program to achieve a different	Recognising that
	output.	computers transfer
Select, use and combine a variety of software	• I can use 'if' and 'then' commands to select an action.	data in binary and
(including internet services) on a range of digital	• I can talk about how a computer model can provide	understanding
	information about a physical system.	simple binary
devices to design and create a range of	• I can use logical reasoning to detect and debug mistakes in	addition
programs, systems and content that accomplish	a program.	Relating binary
given goals, including collecting, analysing,	• I use logical thinking, imagination and creativity	signals (Boolean)
evaluating and presenting data and information	to extend a program.	to the simple
		character-based
Use technology safely, respectfully and		Ianguage, ASCII • Learning that
responsibly; recognise acceptable/unacceptable	Handling Data	messages can be
behaviour; identify a range of ways to report	• I can use a spreadsheet and database to collect and record	sent by binary
concerns about content and contact.	data.	code, reading
	• I can choose an appropriate tool to help me collect data	binary up to 8
	 I can present data in an appropriate way. 	characters and
	• I can search a database using different operators to refine	carrying out binary
	my search.	calculations
	• I can talk about mistakes in data and suggest how it could	Understanding
	be checked.	how bit patterns
		represent images
	Multimedia	as pixels
	I can use text, photo, sound and video editing tools to refine	
	my work.	Computational Thinking
	• I can use the skills I have already developed to create	Decomposing
	content using unfamiliar technology.	animations into a
	• I can select, use and combine the appropriate technology	series of images
	tools to create effects that will have an impact on others.	Decomposing a
	• I can select an appropriate online or offline tool to create and	program without
	share ideas.	support
	• I can review and improve my own work and support others to	Decomposing a
	improve their work.	story to be able to
	1	plan a program to



Key Vocabulary	

Three Hares Computing Curriculum Progression – Three Hares Primary Schools

	Technology in Our Lives	tell a story
	I can describe different parts of the Internet.	Predicting how
	• I can use different online communication tools for different	software will work
	purposes.	based on previous
	• I can use a search engine to find appropriate information and	experience
	check its reliability.	Writing more
	I can recognise and evaluate different types of information I find on the World Wide Web	complex algorithms for a purpose
	find on the World Wide Web.I can describe the different parts of a webpage.	
	 I can find out who the information on a webpage belongs to 	Programming
	 I know which resources on the Internet I can download and 	Programming an
	USE.	animation
	I can describe the ways in which websites advertise their	Iterating and
	products to me.	developing their
		programming as
		they work
		Beginning to use
		nested loops (loops within loops)
		Debugging their
		own code
Information technology		Writing code to
		create a desired
		effect
		• Using a range
		of programming commands
		Using repetition
		within a program
		Amending code
		within a live scenaio
		Information technology
		Using Software
		Using logical
		thinking to explore
		software more
		independently,
		making predictions
		based on their previous
		experience
		Using software
		programme Sonic
		Pi to create music
		• Using the
		animation software: Stop
		Motion to create
		video animation
		 Identify ways to
		improve and edit
		final products
		Independently learning how to
		use 3D design
		software package
		TinkerCAD
		Using Email and Internet
		Developing
		searching skills to
		help find relevant
		information on the
		internetLearning how to
		use search engines
	·	



effectively to find information,
focussing on
keyword searches
and evaluating
search returns
Using Data
Understanding
how data is
collected
Disited Literature
Digital Literacy
Wider Use of technology
• Learning what a
search engine is
Digital Literacy
Identifying possible
dangers online and
learning how to
stay safe.
Creating an
animation about
digital safety
Recognising that
information on the
Internet might not be true or correct
and learning ways
of checking validity
Learning to use an
online community

