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Subject	Knowledge	Skills
Computational Thinking Design, write and debug programs that	E Safety •I can talk about what makes a secure password and why	Computer Science
accomplish specific goals, including controlling or	they are important.	Hardware
simulating physical systems; solve problems by decomposing them into smaller parts	 I can protect my personal information when I do different things online 	• Understanding what the different components of a computer do and ho
	 I can use the safety features of websites as well as 	together
	reporting concerns to an adult.	Drawing comparisons across different types of computers
Use sequence, selection, and repetition in programs: work with variables and various forms	 I can recognise websites and games appropriate for my 	• Learning what a server does
of input and output	el can make good choices about how long I spend online.	
	•I ask an adult before downloading files and games from	Networks and Data Representation
Use logical reasoning to explain now some simple algorithms work and to detect and correct errors	the Internet.	 Learning what a network is and its purpose
in algorithms and programs	 I can post positive comments online. 	• Identifying the key components within a network, including whether the
	Programming	wireless
Computer Hardware and Digital Literacy	I can break an open-ended problem up into smaller	 Recognising links between networks and the internet
internet; how they can provide multiple services,	parts.	 Learning how data is transferred
such as the world wide web; and the opportunities	 I can put programming commands into a sequence to achieve a specific outcome 	
they offer for communication and collaboration	 I keep testing my program and can recognise when I 	Computational Thinking
Use search technologies effectively, appreciate	need to debug it.	Using decomposition to explain the parts of a laptop computer
how results are selected and ranked, and be	• I can use repeat commands.	 Using decomposition to explore the code behind an animation
discerning in evaluating digital content	 I can describe the algorithm I will need for a simple task. I can detect a problem in an algorithm which could result in 	 Using repetition in programs
	unsuccessful programming.	 Understanding that computers follow instructions
Select, use and combine a variety of software	Han Wan Date	• Using an algorithm to explain the roles of different parts of a computer
(including internet services) on a range of digital	Handling Data	 Using logical reasoning to explain how simple algorithms work
devices to design and create a range of programs, systems and content that accomplish	organised.	 Explaining the purpose of an algorithm
given goals, including collecting, analysing,	 I can search a ready-made database to answer 	Forming algorithms
evaluating and presenting data and information	questions.	independently
lise technology safely, respectfully, and	 I can collect data help me answer a question. I can add to a database 	
responsibly; recognise acceptable/unacceptable	 I can make a branching database. 	Programming
behaviour; identify a range of ways to report	I can use a data logger to monitor changes and can talk	• Using logical thinking to explore more complex software; predicting, tes
concerns about content and contact.	about the information collected.	what it does
	Multimedia	Incorporating loops to make code more efficient Demixing evicting code
	 I can create different effects with different technology 	Remixing existing code
	tools.	• Using a more systematic approach to debugging code, justifying what is
	 I can combine a mixture of text, graphics and sound to share my ideas and learning 	
	 I can use appropriate keyboard commands to amend text 	Information technology
	on my device, including making use of a spellchecker.	
	I can evaluate my work and improve its effectiveness.	Lising Software
	I can use an appropriate tool to share my work online.	• Taking photographs and recording video to tell a story
	Technology in our lives	• Using software to edit and enhance their video adding music sounds an
	• I can save and retrieve work on the Internet, the school	with transitions
	network or my own device.	
	 I can tell you ways to communicate with others online. 	Using Email and the Internet
	• I can describe the World Wide Web as the part of the	Learning to log in and out of an email account
	Internet that contains websites.	• Writing an omail including a subject 'to' and 'from'



	Key Vocabulary
w they work	
y are wired or	
ing and explaining	
wrong and how it	
d text on screen	

Three Hares Computing Curriculum Progression – Three Hares Primary Schools

• I can use search tools to find and use an appropriate	Sending an email with an attachment
website.	Replying to an email
I think about whether I can use images that I find online in	
my own work.	Using Data
	• Understanding the vocabulary associated with databases: field, record,
	• Learning about the pros and cons of digital versus paper databases
	Sorting and filtering databases to easily retrieve information
	Creating and interpreting charts and graphs to understand data
	Digital Literacy
	Wider Use of technology
	• Understanding the nurnose of emails
	• Learning to be a responsible digital citizen: understanding their response
	others respectfully and recognising when digital hebayiour is unkind
	• Learning about suborbullying
	• Learning about cyber bullying
	• Learning that not an emails are genuine, recognising when an email mig

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