Subject	Knowledge	Skills
•	U	
Computational Thinking Design, write and debug programs that	E Safety	Computer Science
accomplish specific goals, including controlling or	I choose a secure password and screen name when I am	
simulating physical systems; solve problems by	using a website.	Hardware
decomposing them into smaller parts	• I can talk about the ways I can protect myself and my friends	Learning about the purpose of routers
	from harm online.	
	 I use the safety features of websites as well as reporting concerns to an adult 	Networks and Data Representation
Use sequence, selection, and repetition in	concerns to an adult.I know that anything I share online can be seen by others.	Consolidating understanding of the key components of a network
programs; work with variables and various forms	 I choose websites, apps and games that are appropriate for 	Understanding that websites & videos are files that are shared from one computer to anoth Lograning about the role of packets
of input and output	my age.	 Learning about the role of packets Understanding that computer networks provide multiple services, such as the World Wide W
Use logical reasoning to explain how some simple	•I can help my friends make good choices about the time they	opportunities for communication and collaboration
algorithms work and to detect and correct errors	spend online.	Computational Thinking
in algorithms and programs	 I can talk about why I need to ask a trusted adult before 	Solving unplugged problems by decomposing them into smaller parts
	downloading files and games from the Internet.	Using decomposition to understand the purpose of a script of code
Computer Hardware and Digital Literacy	 I comment positively and respectfully online and through text messages 	Using decomposition to help solve problems
Understand computer networks including the	messages.	 Identifying patterns through unplugged activities Using past experiences to help solve new problems
internet; how they can provide multiple services,		Using abstraction to identify the important parts when completing both plugged and unplugged an
such as the world wide web; and the opportunities	Programming	Creating algorithms for a specific purpose
they offer for communication and collaboration	• I can use logical thinking to solve an open-ended problem	
Use search technologies effectively, appreciate	by breaking it up into smaller parts.	Programming
how results are selected and ranked, and be	• I can use an efficient procedure to simplify a program.	• Understanding that websites can be altered by exploring the code beneath the site
discerning in evaluating digital content	• I can use a sensor to detect a change which can select an action within my program.	 Coding a simple game Using abstraction and pattern recognition to modify code
	 I know that I need to keep testing my program while I am 	
	putting it together.	Information technology
Select, use and combine a variety of software	• I can use a variety of tools to create a program.	
(including internet services) on a range of digital	• I can recognise an error in a program and debug it.	
devices to design and create a range of programs, systems and content that accomplish	• I recognise that an algorithm will help me to sequence more	Using Software
given goals, including collecting, analysing,	complex programs.	Building a web page and creating content for it • Designing and creating a webpage for a given purpose
evaluating and presenting data and information	I recognise that using algorithms will also help solve problems in other learning such as Maths, Science and Design and	• Use Google online software for documents, presentations, forms and spreadsheets.
<u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>	Technology.	Work collaboratively with others
Use technology safely, respectfully and		
responsibly; recognise acceptable/unacceptable	Handling Data	Using Data
behaviour; identify a range of ways to report	 I can organise data in different ways. 	Designing a weather station which gathers and records sensor data
concerns about content and contact.	• I can collect data and identify where it could be inaccurate.	
	I can plan, create and search a database to answer guestions	
	questions.I can choose the best way to present data to my friends.	Digital Literacy
	 I can use a data logger to record and share my readings 	
	with my friends.	Wider Use of technology
		Understanding that software can be used collaboratively online to work as a team
	Multimedia	Recognising what appropriate behaviour is when collaborating with others online
	I can use photos, video and sound to create an atmosphere	Recognising that information on the Internet might not be true or correct and that some sou trustworthy than others
	when presenting to different audiences.I am confident to explore new media to extend what I can	
	achieve.	
	 I can change the appearance of text to increase its 	
	effectiveness.	
	• I can create, modify and present documents for a particular	
	purpose.	
	I can use a keyboard confidently and make use of a	
	spellchecker to write and review my work.	
	 I can use an appropriate tool to share my work and collaborate online. 	
		I



	Key Vocabulary
her	
Web, and	
gged activities	
ources are more	

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I can give constructive feedback to my friends to help them	
improve their work and refine my own work.	
Technology in Our Lives	
I can tell you whether a resource I am using is on the	
Internet, the school network or my own device.	
 Lean identify key words to use when searching sofely on 	
 I can identify key words to use when searching safely on the World Wide Web. 	
 I think about the reliability of information I read on the World 	
Wide Web.	
 I can tell you how to check who owns photos, text and 	
clipart.	
• I can create a hyperlink to a resource on the World Wide Web.	
I can recognise that websites use different methods to	
advertise products	

