Subject: Computi	ng			
<u>Year:</u> Year 7				
<u>Topic 1</u> Using computers effectively and	<u>Topic 2</u> <u>Networks</u>	<u>Topic 3</u> <u>Scratch I</u>	<u>Topic 4</u> <u>Edublocks</u>	<u>Sp</u>
 effectively and safely Considering best practice with passwords Choosing a secure password Logging on to school systems Efficient file management Basic functionality of software Online safety – including social media Personal data and keeping data safe Sourcing content online 	 a computer network Wired and wireless network comparisons 	 and computers understand instructions (understand and carry out) Define a sequence as instructions performed in order, with each executed in turn Modify a sequence Predict the outcome of a simple sequence -Define a variable as a name that refers to data being stored by the computer Make a sequence that includes a variable 	 Assessing the difference between input and output Constructing a sequence of instructions in the correct order Construction of a program that will output data Write a program that will input data Assess the difference between sequence and selection Write a program that uses selection 	 Ic rans It a t <lit< li=""> t t t t t <l< td=""></l<></lit<>

<u>Topic 5</u> preadsheets

Identify columns, rows, cells, and cell references in spreadsheet software Use formatting techniques in a spreadsheet Use basic formulas with cell references to perform calculations in a spreadsheet (+, -, *, /) Use the autofill tool to replicate cell data Explain the difference between data

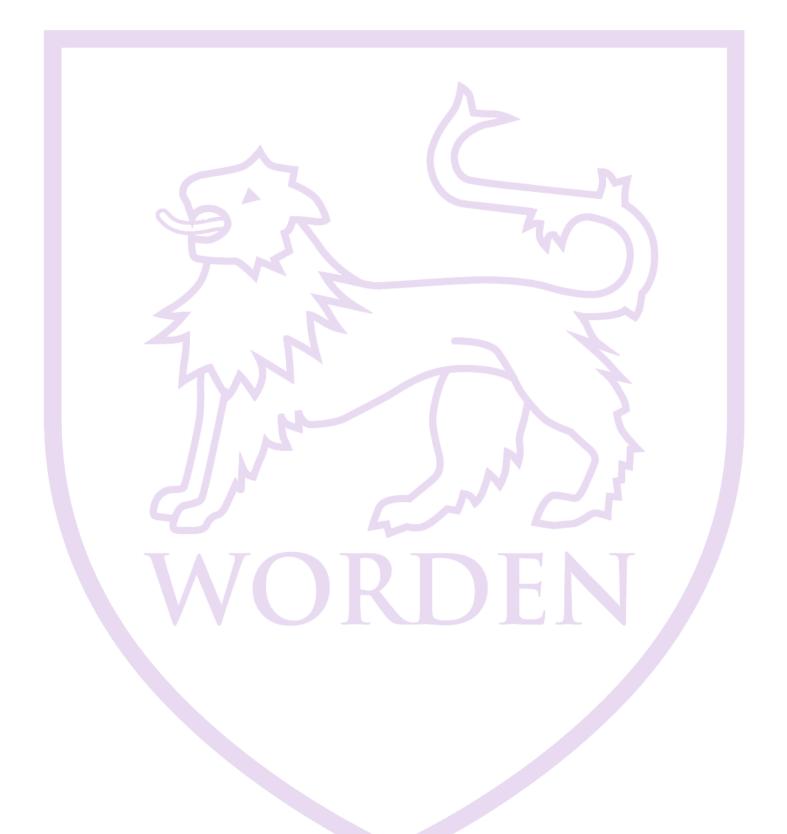
 The impact of cyber bullying Basic digital skills and features of different software Choosing an appropriate piece of software for a task Constructing a digital piece of work 	 these over a network Difference between Internet and World Wide Web Services provided over the Internet Connectivity and the Internet of Thing (IoT) Impact of Internet connected devices Components of a network when requesting data from the Web 	 Recognise that computers follow the control flow of input/process/output Trace the values of variables within a sequence Define a condition as an expression that will be evaluated as either true or false Identify that selection uses conditions to control the flow of a sequence Identify where selection statements can be used in a program Modify a program to include selection - Create conditions that use comparison operators (>,<,=) Create conditions that use logic operators (and/or/not) Identify where selection statements can be used in a 	outcomes. (IF- ELSE) • Write a program that uses selection with more than two outcomes (IF-ELIF-ELSE) • Consider the role of iteration in a program • Construct a program that draws basic shapes using counter- controlled iteration (FOR loop) • Adapt a program for the number of times it needs to repeat for a given purpose • Write an algorithm that will help you create a solution to a problem
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and information • Explain the difference between primary and secondary sources of data • Collect data • Analyse data • Create appropriate charts in a spreadsheet • Use the functions SUM, COUNTA, MAX, and MIN in a spreadsheet • Use a spreadsheet to sort and filter data • Use the functions AVERAGE, COUNTIF, and IF in a spreadsheet • Use conditional

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	program that include • Construct a
	comparison and shape maker
	logical operators program using
	• Define iteration as a IF-ELSE.
	group of instructions • Extending a
	that are repeatedly program to
	executed make use of
	Describe the need multiple
	for iteration conditions IF-
	Detect and correct ELIF-ELSE
	errors in a program
	(debugging)
	Identify where
	, count-controlled
	iteration can be
	used in a program
	Implement count-
	controlled iteration
	in a program
	Independently
	design and apply
	programming
	constructs to solve a
	problem
	(subroutine,
	selection, count-
	controlled iteration,
	operators, and
	variables)

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formatting in a	
spreadsheet	
Apply all of	
the	
spreadsheet	
skills covered	
in this unit	



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