

Term	Wk	W/C	Theme	Topic	Assessment Objectives	Notes
	1	3/9/18		The Internet (Communication and Networks)	All Understands the difference between the internet and internet service e.g. world wide web	Monday: Training Day Tuesday: New students in Wednesday: All students in
	2	10/9/18	Theme 1 Ambition (decision making/		Shows an awareness of, and can use a range of internet services e.g. VOIP Recognises what is acceptable and unacceptable	
	3	17/9/18	leadership skills)		behaviour when using technologies and online services.	
F4	4	24/9/18			Understands how to effectively use search engines, and knows how search results are selected, including that search engines use 'web crawler programs' Selects, combines and uses internet services. Demonstrates responsible use of technologies and online services, and knows a range of ways to report concerns. Some Understands how search engines rank search results Understands how to construct static web pages using HTML and CSS Understands data transmission between digital	
Autumn 1	5	1/10/18				
	6	8/10/18				
	7	15/10/18	Theme 2			Friday: Training Day
	8	22/10/18	Theme 2 Rule of Law (responsibility)			



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					i.e. IP addresses and packet switching.	
					Half Term	
	9	5/11/18	Theme 3 Optimism (learning from mistakes)	How Computers Work (Hardware and Processing) Kr ar Sc Re m Ut ex Kr	All Knows that computers collect data from various input devices	
	10	12/11/18			Including sensors and application software. Understands the difference between hardware and application software Understands their roles within a computer system. Most Understands why and when computers are used. Understands the main functions of the operating	Friday: Data Point Deadline
	11	19/11/18				
	12	26/11/18				
2	13	3/12/18	Theme 4 Tolerance (political and cultural awareness)			
Ē	14	10/12/18				
Autumn 2	15	17/12/18			Some Recognises and understands the function of the main internal parts of basic computer architecture Understands the concepts behind the fetch-execute cycle Knows there is a range of operating systems and application software for the same hardware	Friday: Christmas Holidays



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					Christmas	
	16	7/1/19			All Understands the difference between data and information.	
	17	14/1/19	Theme 5 Devotion		Knows why sorting data in a flat file can improve searching for information	
	18	21/1/19	(work ethic)		Uses filters or can perform single criteria searches for information	
	19	28/1/19			Most Performs more complex searches for information e.g. using Boolean and relational operators	
	20	4/2/19				
Spring 1		Theme 6	Data and Data Representation	Analyses and evaluates data and information recognises that poor quality data leads to unreliable results, and inaccurate conclusions. Some		
	21 11/2/19 (flexibility and adaptability)		Knows that digital computers use binary to represent all data Understands how bit patterns represent numbers and images. Knows that computers transfer data in binary. Understands the relationship between binary and file size (uncompressed). Defines data types: real numbers and Boolean Queries data on one table using a typical query			



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					language.	
				На	alf Term	
	22	25/2/19			All Designs solutions (algorithms) that use repetition	Monday: Training Day
5	23	4/3/19			and two-way selection i.e. if, then and else Uses diagrams to express solutions Uses logical reasoning to predict outputs, showing an awareness of inputs. Most Shows an awareness of tasks best completed by humans or computers Designs solutions by decomposing a problem and creates a sub-solution for each of these parts (decomposition) Recognises that different solutions exist for the same problem. Some Understands that iteration is the repetition of a process such as a loop Recognises that different algorithms exist for the same problem Represents solutions using a structured notation Can identify similarities and differences in	Careers Week
Spring 2	24	11/3/19	Theme 7			Friday: Data Point Deadline
0,	25	18/3/19	Compassion (communication skills)			
	26	25/3/19		Algorithms		
	27	1/4/19	Theme 8 Innovation (problem solving/ critical thinking skills)			



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					situations and can use these to solve problems (pattern recognition).	
	•				Easter	
	28	22/4/19		Programming	All Creates programs that implement algorithms to	Monday: Bank Holiday
	29	29/4/19			achieve given goals Declares and assigns variables. Uses post-tested loop e.g. 'until', and a sequence of selection statements in programs, including an if, then and else statement.	
	30	6/5/19				Monday: Bank Holiday Tuesday: Training Day
	31	13/5/19				
Summer 1	32	20/5/19	Theme 9 Democracy (listening and teamwork skills)	Space Project (Microbits)	Understands the difference between, and appropriately uses if and if, then and else statements. Uses a variable and relational operators within a loop to govern termination Designs, writes and debugs modular programs using procedures Knows that a procedure can be used to hide the detail with sub-solution (procedural abstraction). Some Understands that programming bridges the gap between algorithmic solutions and computers	



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					Has practical experience of a high-level textual language, including using standard libraries when programming Uses a range of operators and expressions e.g. Boolean, and applies them in the context of program control. Selects the appropriate data types	
	•				Half Term	,
	33	3/6/19	Theme 10 Respect (networking and interpersonal skills) Theme 11 Individual Liberty (independence)	Programming	As Summer 1	
	34	10/6/19				Wednesday: Data Point Deadline
	35	17/6/19			All Collects, organises and presents data and	
۲2	36	24/6/19			information in digital content Creates digital content to achieve a given goal	
Summer 2	37	1/7/19		Creative Project	through combining software packages and internet services to communicate with a wider audience e.g. blogging Makes appropriate improvements to solutions based on feedback received and can comment on the success of the solution. Most Makes judgements about digital content when evaluating and repurposing it for a given audience	Thursday: Transition Day 1
75	38	8/7/19		(Information Technology)		Thursday: Transition Day 2
	39	15/7/19		i ecnnology)		Activity Week



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					Recognises the audience when designing and creating digital content Understands the potential of information technology for collaboration when computers are networked Uses criteria to evaluate the quality of solutions, can identify improvements making some refinements to the solution, and future solutions. Some Evaluates the appropriateness of digital devices, internet services and application software to achieve given goals Recognises ethical issues surrounding the application of information technology beyond school Designs criteria to critically evaluate the quality of solutions, uses the criteria to identify improvements and can make appropriate refinements to the solution.	
	40	22/7/19				Wednesday, Thursday, Friday: Holiday Club
			Theme 12 Happiness		Summer	



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			(stress and conflict management)			

Notes

Information Technology objectives will also be assessed throughout each project where appropriate