

Computing 3D: Programme of Study 2018-2019

Term	Wk	W/C	Theme	Topic	Assessment Objectives	Notes
Autumn 1	1	3/9/18	Theme 1 Ambition (decision making/ leadership skills)	Internet Safety (Communication and Networks)	All Obtains content from the world wide web using a web browser Understands the importance of communicating safely and respectfully online and the need for keeping personal information private Knows what to do when concerned about content or being contacted Most Navigates the web and can carry out simple web searches to collect digital content Demonstrates use of computers safely and responsibly Knows a range of ways to report unacceptable content and contact when online Some Understands the difference between the internet and internet service e.g. world wide web Shows an awareness of, and can use a range of internet services e.g. VOIP	Monday: Training Day Tuesday: New students in Wednesday: All students in
	2	10/9/18				
	3	17/9/18				
	4	24/9/18				
	5	1/10/18	Theme 2 Rule of Law (responsibility)			
	6	8/10/18				
	7	15/10/18				Friday: Training Day
	8	22/10/18				

Computing 3D: Programme of Study 2018-2019

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					Recognises what is acceptable and unacceptable behaviour when using technologies and online services.	
				Half Term		
Autumn 2	9	5/11/18	Theme 3 <u>Optimism</u> (learning from mistakes)	How Computers Work (Hardware and Processing)	<p>All Understands that computers have no intelligence and that computers can do nothing unless a program is executed Recognises that all software executed on digital devices is programmed.</p> <p>Most Recognises that a range of digital devices can be considered a computer Recognises and can use a range of input and output devices Understands how programs specify the function of a general-purpose computer</p> <p>Some Knows that computers collect data from various input devices Including sensors and application software. Understands the difference between hardware and application software Understands their roles within a computer system.</p>	
	10	12/11/18				Friday: Data Point Deadline
	11	19/11/18				
	12	26/11/18				
	13	3/12/18	Theme 4 <u>Tolerance</u> (political and cultural awareness)			
	14	10/12/18				
	15	17/12/18				Friday: Christmas Holidays

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				Christmas		
Spring 1	16	7/1/19	Theme 5 <u>Devotion</u> (work ethic)	Introduction to Databases (Data and Data Representation)	<p>All Recognises that digital content can be represented in many forms Distinguishes between some of these forms Can explain the different ways that they communicate information.</p> <p>Most Recognises different types of data: text, number. Appreciates that programs can work with different types of data Recognises that data can be structured in tables to make it useful.</p> <p>Some Understands the difference between data and information. Knows why sorting data in a flat file can improve searching for information Uses filters or can perform single criteria searches for information</p>	
	17	14/1/19				
	18	21/1/19				
	19	28/1/19				
	20	4/2/19	Theme 6 <u>Versatility</u> (flexibility and adaptability)			
	21	11/2/19				
Half Term						

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Spring 2	22	25/2/19		Planning Programs (Algorithms)	<p>All Understands what an algorithm is Is able to express simple linear (non-branching) algorithms symbolically Understands that computers need precise instructions. Demonstrates care and precision to avoid errors.</p> <p>Most Understands that algorithms are implemented on digital devices as programs Designs simple algorithms using loops, and selection i.e. if statements Uses logical reasoning to predict outcomes Detects and corrects errors i.e. debugging, in algorithms.</p> <p>Some Designs solutions (algorithms) that use repetition 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.</p>	Monday: Training Day
	23	4/3/19	Theme 7 Compassion (communication skills)			Careers Week
	24	11/3/19				Friday: Data Point Deadline
	25	18/3/19				
	26	25/3/19				
	27	1/4/19		Theme 8 Innovation (problem solving/ critical thinking skills)		
Easter						

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Summer 1	28	22/4/19		Creating Animations and Games in Scratch (Programming and Development)	<p>All Knows that users can develop their own programs Can demonstrate this by creating a simple program in an environment that does not rely on text e.g. programmable robots etc. Executes, checks and changes programs. Understands that programs execute by following precise instructions.</p> <p>Most Uses arithmetic operators, if statements, and loops, within programs. Uses logical reasoning to predict the behaviour of programs Detects and corrects simple semantic errors i.e. debugging, in programs.</p> <p>Some Creates programs that implement algorithms to 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.</p>	Monday: Bank Holiday
	29	29/4/19				
	30	6/5/19	Theme 9 Democracy (listening and teamwork skills)			Monday: Bank Holiday Tuesday: Training Day
	31	13/5/19				
	32	20/5/19				
				Half Term		

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Summer 2	33	3/6/19	Theme 10 Respect (networking and interpersonal skills)	As Summer 1	As Summer 1	
	34	10/6/19				Wednesday: Data Point Deadline
	35	17/6/19				
	36	24/6/19				
	37	1/7/19	Theme 11 Individual Liberty (independence)	Creative Project (Information Technology)	All Uses software under the control of the teacher to create, store and edit digital content, using appropriate file and folder names Understands that people interact with computers Shares their use of technology in school. Knows common uses of information technology beyond the classroom Talks about their work and makes changes to improve it. Most Uses technology with increasing independence to purposefully organise digital content Shows an awareness for the quality of digital content collected Uses a variety of software to manipulate and present digital content: data and information	Thursday: Transition Day 1
	38	8/7/19				Thursday: Transition Day 2
	39	15/7/19				Activity Week

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					<p>Shares their experiences of technology in school and beyond the classroom Talks about their work and makes improvements to solutions based on feedback received.</p> <p>Some Collects, organises and presents data and information in digital content Creates digital content to achieve a given goal 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.</p>	
	40	22/7/19				Wednesday, Thursday, Friday: Holiday Club
			<p>Theme 12</p> <p>Happiness (stress and conflict management)</p>	Summer		

Notes

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