

KS3 Curriculum Overview



Subject: Computing

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 7	Online Safety Awareness & Technology Updates					
	Introduction to Computing Computer access and safe usage Pupil user agreements Baseline test	Using Presentation Software (All About Me) Focus : using presentation software internet research using presentation software inserting data applying special effects Final response: slideshow presentation about self Software used : MS Powerpoint	Animation (Road Safety) Focus : animation Introduction to Animation Animation types Story boarding The use of props & scenery Use of Stop frame animation Software used : imovie app Final response : animated film short	Collecting & Presenting Data (Harry Potter Theme) Focus: Collecting & presenting data Spreadsheets Graphs questionnaire Charts surveys pictograms software used : MS Excel Final response : Spreadsheet & related graphics/charts	Introduction to Coding (Robots) Focus : Introduction to programming Basic coding Cause & effect debugging Use of Bee bots Game design Software used : Various/Bee Bots Final response : Bee Bot game map & route	Biscuit enterprise Focus : Skills Showcase. Modelling Algorithms & Flowcharts (making a biscuit) Target audience Custom research questionnaire data collection & interpretation Spreadsheet formulae Software used : MS Excel Final response : Product proposal

						slideshow Digital Advert & Graphic poster
	Using Computers Focus: Computer systems History of the computer How computers work Hardware/software Software—experiment with school software Online safety Personal data	Desktop Publishing (Tourist Information Leaflet) Focus : Desk Top Publishing & presenting information Product analysis research Processing text and images Using a digital camera Ipad photography Editing photos Software used: MS Publisher Final response: tourist information leaflet	Road safety Focus : Intro to apple stop motion software Team work : movie making Storyboarding prop/scenery production Software used: imovie Final response: group produced animation short	Networks & The Internet Focus: Network Types and Connections Software used: Internet Final response: presentation	Scratch animation Focus : Game Animation Intro to scratch Animation basics Coding Sprites & Stages Software used: Scratch (online) Final response: Chase game	Biscuit enterprise focus : Skills Showcase. Graphic Design Biscuit production Product testing Focus groups Quality control Packaging design Software used : Various Final response : packaging net
Links to RRS / PFA and SMSC:	CDI Outcome:1, 3, 9, 11, 17 PFA: 3	CDI Outcome: 2, 3, 15 PFA: 3	CDI Outcome: 2, 3, 9, 12, 15 PFA: 2	CDI Outcome: 2, 3, 9, 12, 15 PFA: 2	CDI Outcome: 1, 2, 3, 9, 15 PFA:2	CDI Outcome: 1, 2, 3, 9, 12, 14, 15 PFA:2

	SMSC: 4 RRS: 1, 16, 17, 28, 29 British Value : 2	SMSC: 2, 4 RRS:1, 28, 29 British Value : 5	SMSC: 4 RRS: 1, 28, 29, 31 British Value : 2	SMSC: 3 RRS: 1, 28, 29, 31 British Value : 1	SMSC: 3 RRS: 1, 28, 29, 31 British Value : 1	SMSC: 3 RRS: 1, 28, 29 British Value : 1
Year 8	Online Safety Awareness & Technology Updates					
	Using the Internet Focus: Analysis of internet use/productivity Website function navigation Viruses Computer Online safety Email Final Response: Presentation Slideshow.	Website Design Focus : Web design Website creation hyperlinks Blogging Software used: Serif Webplus. Wordpress. Final response: Simple website based on own hobbies	Film Making (Advertising) Focus : Film Making Care/use of video camera Responding to a brief Story creation Story boarding filming Video editing Use of windows Movie maker Software used: Movie Maker Final response: Group produced advert	Public Information Systems (The weather) Focus : Public information systems Green screen Weather report research & production slideshow presentation Software used: MS Powerpoint Final response: Interactive weather map presentation	Data Representation Focus ; Binary Data Data capture Validation and verification Processing Presentation Audio Visual representation and discover how media is stored as binary code. Software Used Gimp. Audacity Final Response digital media such as images and sounds,	Grand designs Focus : Modelling Spreadsheet: Cost of building a house Use of CAD CAM/Cricut Device (house keyring) Use of Google sketchup Software used: various Final response: House Design presentation. Keyring product

	Research & Design (Endangered animals Leaflet) Focus : Graphic Design internet bias Researching a topic Searching for information and collating it Software used: MS Publisher. Pages app Final response: Leaflet	Data use and misuse Focus : Data collection methods, Use and misuse Data collection methods Data analysis Supermarket loyalty cards Barcodes Qr codes Binary	Digital Photography (portrait photography) Focus : use of a digital camera and Photo Editing Setting up a studio Camera care Uploading photos Photo editing Portrait photography Software used: Adobe Photoshop. Lightroom Final Response: 3 photographs	Data Logging (Insect Habitats) Focus : Data logging Data logging techniques Computer Microscope Presenting data findings Cad cam 2d design—insect keyring Software used: Data Logging software, MS Powerpoint & 2D design Final response: slideshow presentation	Programming Focus : Introduction to Python and Microbit devices Software used: Python BBC Microbit Final response: Step Counter	
Links to RRS / PFA and SMSC	CDI Outcome: 2, 3, 9, 15 PFA: 3 SMSC: 4 RRS: 1, 16, 17, 28 British Value : 2, 5	CDI Outcome: 2, 3, 9, 12, 14, 15 PFA: 2, 3 SMSC: 2, 3 RRS: 1, 28, 29 British Value : 1	CDI Outcome: 1, 2, 3, 9, 14, 15 PFA: 3 SMSC: 2, 3 RRS: 1, 28, 29 British Value : 1, 4, 5	CDI Outcome: 1, 2, 3, 9, 15 PFA: 2, 3 SMSC: 3 RRS: 1, 28, 29 British Value : 1	CDI Outcome: 1, 2, 3, 9, 15 PFA: 3 SMSC: 3 RRS: 1, 28, 29, 31 British Value : 1	CDI Outcome: 1, 2, 3, 6, 9, 12, 14, 15 PFA: 2 SMSC: 3 RRS: 1, 28, 29 British Value : 1

Year 9	Online Safety Awareness & Technology Updates					
	Communicating Online	Making Music	Graphic design	IT & The World of Work	Game Design	The wedding planner
	<p>Focus : digital communication</p> <p>Social networking : use & misuse Methods of communication Protecting their online identity Digital Footprints contact and conduct and know how to report concerns.</p>	<p>Focus: Computer generate music</p> <p>Types of Sound Use of Garage band Exploring Music apps</p> <p>Podcasting</p> <p>Focus : Podcasts Podcasting basics</p> <p>Creating an online vlog Use of audacity</p> <p>Software used : audacity Final response : podcast</p>	<p>Focus : Desktop Publishing</p> <p>Analysis of newspaper layouts Planning Logo Design</p> <p>Software used: MS Publisher Final response : newsletter</p>	<p>Focus: Higher education and Beyond</p> <p>Jobs in Computing CV development Skills required Accessibility Cloud Computing Creating personal networks</p> <p>Software used: Various Final response : word processed CV. Presentation</p>	<p>Focus : Python programming</p> <p>Introduction to Python software Games design</p> <p>Software used: python Final response: Game</p>	<p>Focus : Modelling</p> <p>Graphic design : stationary design Logo design</p> <p>Spreadsheet : cost of a wedding Composing a wedding tune Chocolate box design Wedding photography</p> <p>Software used : various Final response : various wedding products</p>
	Computers and the	App Design	Cad Cam	Algorithms		

	<p>law</p> <p>Focus : the laws of computing</p> <p>Legislation Copyright Data protection Health and safety</p> <p>Final response : health & safety poster</p>	<p>Focus : Modelling. App Development</p> <p>Software used : Final response :</p>	<p>Focus: 2D/3D design. Laser/Cricut cutter Device use</p> <p>Design Space app development</p> <p>Software used : Design Space Final response : Various Products</p>	<p>Focus: Media Animation Algorithms for planning process basics of modelling, texturing, and animating; outputs will include 3D models and short videos.</p> <p>Software used: Blender Final response : 3D animation sequence</p>		
Links to RRS / PFA and SMSC	<p>CDI Outcome: 1, 2, 3, 9, 11, 14, 15 PFA: 3, 4 SMSC: 2, 3 RRS: 1, 16, 17, 28 British Value : 2, 5</p>	<p>CDI Outcome: 1, 2, 3, 9, 14, 15 PFA: 3 SMSC: 2, 3 RRS: 1, 28, 29 British Value : 1</p>	<p>CDI Outcome: 2, 3, 9, 15 PFA: 2, SMSC: 3 RRS: 1, 28, 29 British Value : 1</p>	<p>CDI Outcome: 1, 2, 3, 9, 15 PFA: 2 SMSC: 2 RRS: 1, 28, 29 British Value : 2</p>	<p>CDI Outcome: 2, 3, 9, 15 PFA: 2 SMSC: 3 RRS: 1, 28, 29, 31 British Value : 1</p>	<p>CDI Outcome: 1, 2, 3, 6, 9, 12, 14, 15 PFA: 2 SMSC: 3 RRS: 1, 28, 29 British Value : 1</p>