

Computing Unit 1: E-Safety							Computing Unit 2: Spreadsheet Modelling							Computing Unit 3 : Binary and HEX						
Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 1	Week 2	Week 3	Week 4	Week 5	Week6	Week 7
1.1 Log in, File Management	1.2 Social Networking	1.3 Keeping your data safe	1.4 Using Email	1.5 Searching the web	ASSESSMENT	DIRT	2.1 Introduction to spreadsheets and Maths in Excel	2.2 Formatting	2.3 Modelling Data	2.4 Graphs	2.5 Household Finances	ASSESSMENT	DIRT	3.1 Understanding Binary	3.2 Binary Addition	3.3 Binary to HEX	3.4 Hex to Binary to Denary	3.5 Images & Binary	ASSESSMENT	DIRT
<p>Students are assessed on a broad range of 'using computers' knowledge including file names, folder structures, being safe online and effective use of email systems.</p> <p>At the end of the unit students will be able to:</p> <ol style="list-style-type: none"> Understand how to stay safe online. How to organise their work with suitable file names in sound folder structures. How to use email software effectively. Understand basic validation principles 							<p>Students are assessed on basic formula principles and excel terminology, and then practically to check skills for tables, formulas and graphs.</p> <p>At the end of the unit students will be able to:</p> <ol style="list-style-type: none"> Understand important excel terms Understand how to calculate in a spreadsheet Understand how to format spreadsheets To be able to produce and interpret graphs 							<p>Students are assessed on their ability to convert Denary numbers to Binary and then on to hexadecimal, and all the way back. They will also be able to complete binary addition.</p> <p>At the end of the unit students will:</p> <ol style="list-style-type: none"> Understand conversions using denary, binary and hex. Be able to add binary and identify any overflow values. Understand how computers interpret images as binary numbers. 						
Homework:							Homework:							Homework:						
Week 1: Draw a diagram to show a sensible folder structure for							Week 2: Explain why formatting is important							Week 2: Make a leaflet or poster to explain binary addition						
Week 2: Read this and complete test: https://www.bbc.com/bitesize/guides/zrtrd2p/revision/1							Week 3: (FLIP) Produce a hand drawn graph to show the ages of 10 family and friends							Week 3: make a leaflet or poster to explain binary to hex conversion.						
Week 4: On word, write a draft email to your old primary school teacher telling them about your first month at Bilton, include key layout features.							Week 5: Produce a spreadsheet and graph for a number of family and friends (heights, ages or other)													
<p>Key Vocab: File names and folder structure</p> <p>Online risks – phishing, strangers, friend lists, names and personal details, copyright, malware, Trolling, anti-virus software and file-sharing.</p> <p>Staying safe online</p>							<p>Key Vocab: Spreadsheet modelling, Formula, Calculations, Formatting, Presentation, Fonts, Cells, Columns, Rows, tables and graphs</p>							<p>Key Vocab: Binary, Hexadecimal, Conversions, Overflow</p>						

<p>Connected Knowledge: Links to Features of interactive products and BTEC Level 3 IT (Social Media unit). Links to NCFE Produce a website/folder and file structure (unit 3). Links to validation and variables in coding (year 8, CS GCSE and CS A Level). Character & Culture / PSHE.</p>	<p>Connected Knowledge: Links to Science/PE/Maths in data analysis To Maths and numeracy. BTEC IT use statistical data and data presentation in social media unit, NCFE iMedia students use excel to produce a Gantt Chart</p>	<p>Connected Knowledge: OCR GCSE C.S Paper 1 exam content – Algorithms and problem solving. A Level CS – core knowledge. HEX links to all Photoshop and Dreamweaver work because of the html colour codes.</p>
<p>Cultural Capital: Understanding how to use IT within an organisation and socially and safely, E-Safety</p>		
<p>Social, Moral, Spiritual and Cultural Development:E-Safety topics, use of social media and networks</p>		
<p>Cultural Capital: Use of spreadsheets and teaching how to budget for yourself, looking at potential jobs and the pay on offer</p>		
<p>Fundamental British Values: Employment Law and Discrimination:</p>		

Computing Unit 4: Image production & editing (Photoshop)						
Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
4.1 Understanding page sizes, layers and opacity	4.2 Resizing images, move tool, flip, hue, black & white and Hot keys	4.3 Text and text editing using html colour codes	4.4 Magazine Design	4.5 Produce a Magazine cover	ASSESSMENT	DIRT
<p>Students are assessed on their ability to use Photoshop in order to produce effective assets.</p> <p>At the end of the unit students will be able to:</p> <ol style="list-style-type: none"> Use the tools within Photoshop to be able to produce effective assets. Understandings the filters and effects available. To be able to create layers involving colour, text and images. 						
Homework:						
Week 3: choose a magazine cover and annotate the different editing elements you can identify, explain how effective this is.						
Week 4: Investigate the html colour codes in the school website and explain how and where they are used.						
Key Vocab: Canvas and canvas dimension, Layers, Opacity, Hot keys (CTRL + C/V/X/[/]/-/+), Layers, filters and effects Html colour codes Formatting – PSD – JPG - Compression						

Computing Unit 5 : Website Development (Dreamweaver)						
Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
5.1 html introduction	5.2 CSS introduction	5.3 Link CSS, adding images, creating hyperlinks	5.4 html & CSS (produce working page)	5.5 Make their own website	ASSESSMENT	DIRT
<p>Students are assessed on their ability to use the tools available in Dreamweaver to produce a website.</p> <p>At the end of the unit students will be able to:</p> <ol style="list-style-type: none"> Manage html files and identify elements of html code. Understand the relationship between creating images and website development. Understand and use CSS. Create and manage navigation features. 						
Homework:						
Week 3: Design a homepage for a topic, annotate to show all fonts, sizes and colours						
Week 4: Create CSS rules for a new Bilton website						
Key Vocab: HTML code, tags, title, head, body, Hotspots and hyperlinks CSS, HTML Colour codes, tab, browser						

Computing Unit 6: Video Editing and Multimedia					
Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
6.1 Importing, use of timeline, transitions, sourcing audio	6.2 Adding scrolling text (Legacy Titles)	6.3 Create own images and video, e	6.4 Produce own video and embed i	6.5 Peer Assessment	6.6 DIRT
<p>Students are assessed on their ability to use a visual programming language to code a complex virtual pet game.</p> <p>At the end of the unit students will be able to:</p> <ol style="list-style-type: none"> Create effective videos that use a range of techniques. Use professional tools to create video. Edit and format the files to produce video Export and embed video in a website 					
Homework:					
Week2: Virtual Pet Homework booklet					
Week 5: Scratch Programming Skills Quiz					
Key Vocab: Import, timeline, scroll bar, scrub bar, timings, transitions, scroll, formatting, export and embed					

<p>Connected Knowledge: Links to the next unit in year 7. Links to all units of NCFE Interactive Media in KS4. Links to BTEC Level 3 units: Social Media and also Website Development. Links to ART and Photography GCSE Binary & HEX unit in year 7 (html colour codes)</p>	<p>Connected Knowledge: Links to previous year 7 unit and binary/Hex work. Links to all units of NCFE Interactive Media in KS4. Links to BTEC Level 3 units: Social Media and also Website Development. Binary & HEX unit in year 7 (html colour codes)</p>	<p>Connected Knowledge: Links to Y7 Unit 4 (Image production and editing) - students will need to customise/create some of their own sprites using skills from this unit. Year 7 units 5 (websites) iMedia Unit 3 and 4 - producing video and multimedia.</p>
<p>Cultural Capital: developing design skills that are applicable cross-curricular and in the workplace</p>		
<p>Social, Moral, Spiritual and Cultural Development: Developing an understanding of design and the consideration of others's needs.</p>		
<p>Cultural Capital: developing a digital literacy that will support them in the modern 21st century</p>		
<p>Fundamental British Values: Employment Law and Discrimination:</p>		