	S2 Computing Science	
Week	Content	Homework
1 June	<ul> <li>Computer Graphics</li> <li>Making complex shapes by adding and subtraction vectors</li> <li>Cat Boy Poster</li> <li>Cat Boy Poster</li> </ul>	
2 June	<ul> <li>Computer Graphics</li> <li>Using textures and applying special effects( filters, shadow and roughen tool)</li> <li>Creating a treasure map</li> <li>Creating a treasure map</li> </ul>	
3 Aug	<ul> <li>Computer Systems</li> <li>Input – process – Output</li> <li>Units for data (bits, bytes, kilobytes, megabytes, gigabytes)</li> <li>Parts of the computer including CPU and memory</li> </ul>	
4 Aug	<ul> <li>Computer Systems</li> <li>Input Devices (scanner, keyboard, graphics tablet, digital camera, webcam)</li> <li>Output Devices (laser and inkjet printer, TFT monitors, loud speakers)</li> <li>Input/Output e task</li> </ul>	Homework 1
5 Aug	<ul> <li>Computer Systems</li> <li>Backing Store (hard disc, CDR, DVDR, USB Flash drive.</li> <li>Application Software and systems software</li> <li>What is an emerging technology?</li> </ul>	
6 Sep	<ul> <li>Computer Systems</li> <li>Selecting the correct hardware – Project</li> <li>Selecting the correct hardware – Project</li> <li>Selecting the correct hardware - Project</li> </ul>	
7 Sep	<ul> <li>Microbit</li> <li>Introduction to microbit(parts of the microbit and using the block editor</li> <li>Using the display</li> <li>Variables and inputs from sensors</li> </ul>	Homework 2
8 Sep	Microbit  • More complex programs  • Mini Project  • Mini Project	
9 Sep	<ul><li>Computer Animation</li><li>What is animation? History of animation (thaumatrope,</li></ul>	

	zootrono)	
	zoetrope)  • practical pair/group work on making thaumatrope /flip	
	book).	
	<ul> <li>Introduction to gif animations using pivot</li> </ul>	
	and the second of the second process of the	
10 Oct	Computer Animation	Homework 3
	<ul> <li>Intro to stopframe animation using Drawplus</li> </ul>	
	Use cameras to create stop frame animation	
	Use cameras to create stop frame animation	
11 Oct	Computer Animation	
11 000	<ul><li>Computer Animation</li><li>Keyframe animation using Drawplus</li></ul>	
	Keyframe animation using Drawplus     Keyframe animation using Drawplus	
	Mini project on Keyframe animation	
12 Oct	Computer Animation	
	Animation Practical Tasks	
	Animation Practical Tasks	
	Animation Practical Tasks	
<b>13 Nov</b>	WWW and The Internet	Homework 4
	<ul> <li>Anatomy of a webpage, hyperlinks and hotspots</li> </ul>	
	Hardware and software required	
14 N	Introduction to HTML	
14 Nov	WWW and The Internet	
	TAGs in HTML     Using HTML to greate websites	
	<ul><li>Using HTML to create websites</li><li>Using HTML to create websites</li></ul>	
15 Nov	WWW and The Internet	Written Test
101	Using HTML to create websites	VVIII Test
	<ul> <li>Investigation on emerging communication technology</li> </ul>	
	Investigation on emerging communication technology	
16 Nov	Computer Security and staying safe Online	Homework 5
	How safe are you online?	
	<ul> <li>Computer Security and passwords/biometrics</li> </ul>	
	Firewalls and hacking	
17 Dec	Computer Security and staying safe Online	
	Computer viruses and phishing	
	Computer related laws	
	<ul> <li>Design and Create Website on Internet Safety and ethical and environmental issues</li> </ul>	
18 Dec		
To Dec	<ul> <li>Computer Security and staying safe Online</li> <li>Design and Create Website on Internet Safety and</li> </ul>	
	ethical and environmental issues	
	Design and Create Website on Internet Safety and	
	ethical and environmental issues	
	<ul> <li>Design and Create Website on Internet Safety and</li> </ul>	

	ethical and environmental issues	
19 Dec	<ul> <li>Computer Security and staying safe Online</li> <li>Design and Create Website on Internet Safety and ethical and environmental issues</li> <li>Design and Create Website on Internet Safety and ethical and environmental issues</li> <li>Design and Create Website on Internet Safety and ethical and environmental issues</li> </ul>	Homework 6
20 Jan	<ul> <li>Database</li> <li>Introduction to flat file database (structure)</li> <li>Field types and creating first access table</li> <li>Using filters to find information quickly</li> </ul>	
21 Jan	<ul> <li>Database</li> <li>Sorting a database</li> <li>Problem solving using access database</li> <li>Problem solving using access database</li> </ul>	
22 Jan	<ul><li>Database</li><li>Formatting and creating a database</li><li>Using queries</li><li>Output using reports</li></ul>	Homework 7
23 Jan	<ul> <li>Database</li> <li>Database Practical Task</li> <li>Database Practical Task</li> <li>Database Practical Task</li> </ul>	
24 Feb	<ul> <li>Programming in VB.Net</li> <li>User interface and the form and toolbox</li> <li>Working with text and variables</li> <li>Practical work</li> </ul>	
25 Feb	Programming in VB.Net  User interface and the form and toolbox  Working with text and variables  Practical work	Homework 8
26 Feb	Programming in VB.Net	
27 Feb	Programming in VB.Net <ul> <li>Naming conventions with objects</li> <li>Using Inputbox for input</li> <li>Practical work</li> </ul>	
28 Mar	Programming in VB.Net <ul> <li>Simple selection using the IF statement</li> <li>Practical work</li> <li>Using conditional loops</li> </ul>	Homework 9

29 Mar	Programming in VB.Net	
	<ul> <li>Practical work</li> </ul>	
	Using Fixed loops	
	Practical work	
30 Mar	Programming in VB.Net	Written Test
	<ul> <li>Practical assessment "Scotland's got Talent" – this</li> </ul>	
	covers aspects of level 3 and 4 Outcome for	
	programming	
	Practical assessment "Scotland's got Talent"     Practical assessment "Scotland's got Talent"	
31 Mar	Practical assessment "Scotland's got Talent"  Pragramming in VP Not.	Homework 10
31 Wai	Programming in VB.Net	Homework 10
	<ul> <li>Practical assessment "Scotland's got Talent"</li> <li>Practical assessment "Scotland's got Talent"</li> </ul>	
	<ul> <li>Practical assessment "Scotland's got Talent"</li> </ul>	
32 April	Programming in VB.Net	
•	Practical assessment "Scotland's got Talent"	
	Practical assessment "Scotland's got Talent"	
	Practical assessment "Scotland's got Talent"	
33 April	3D Games Design	
	<ul> <li>Active Props and special effects</li> </ul>	
	<ul> <li>Practical Problem Solving</li> </ul>	
	Using rules with active props and doors	
34 May	3D Games Design	Homework 11
	Haunted house and Sewer pipe task  Aution Proposed to Seed to See	
	Active Props and special effects     Using rules with active props and deers	
35 May	<ul><li>Using rules with active props and doors</li><li>3D Games Design</li></ul>	
33 May	Characters and volume triggers	
	<ul> <li>Pickups and media</li> </ul>	
	Design and create a game	
36 May	3D Games Design	
	Design and create a game	
	<ul> <li>Design and create a game</li> </ul>	
	Design and create a game	
<b>37 May</b>	3D Games Design	
	Design and create a game	
	Design and create a game  Design and create a game	
	Design and create a game	