WB	Content	Organiser	Es and Os	Benchmark	Homework
1 June	Computer Animation Intro to animation using Pivot Stopframe animation using drawplus Stopframe animation using drawplus	Using digital products and services in a variety of contexts to achieve a purposeful outcome	I can explore and use the features of a range of digital technologies, integrated software and online resources to determine the most appropriate to solve problems. TCH 3-01a	Uses the most appropriate applications and software tools to capture, create and modify text, images, sound, and video to present and collaborate.	
2 June	 Keyframe Keyframe animation using Drawplus Keyframe animation using Drawplus Mini project on Keyframe or stopframe animation 	Using digital products and services in a variety of contexts to achieve a purposeful outcome	I can explore and use the features of a range of digital technologies, integrated software and online resources to determine the most appropriate to solve problems. TCH 3-01a	Uses the most appropriate applications and software tools to capture, create and modify text, images, sound, and video to present and collaborate.	

3 June	 Mini project on Keyframe or stopframe animation Mini project on Keyframe or stopframe animation Mini project on Keyframe animation Mini project on Keyframe or stopframe animation 	Using digital products and services in a variety of contexts to achieve a purposeful outcome	I can explore and use the features of a range of digital technologies, integrated software and online resources to determine the most appropriate to solve problems. TCH 3-01a	Uses the most appropriate applications and software tools to capture, create and modify text, images, sound, and video to present and collaborate.	
5 Aug	 Computer Systems Hardware basics including binary Processor and Von Neumann Architecture Memory and Von Neumann Architecture 	Understanding and analysing computing technology	I can describe the structure and operation of computing systems which have multiple software and hardware levels that interact with each other. TCH 3-14b	Demonstrates an understanding of the von Neumann architecture and how machine code instructions are stored and executed within a computer system	
6 Sep	Microbit • Introduction to microbit(parts of the microbit and using the block	Understanding and analysing computing technology	I can describe the structure and operation of computing systems which have multiple software and hardware levels that interact with each other. TCH 3-14b	Demonstrates an understanding of the von Neumann architecture and how machine code instructions are stored and executed within a computer system	Hardware and animation 1

	editor Using the display Variables and inputs from sensors		I can explain the overall operation and architecture of a digitally created solution TCH 4-14b	Demonstrates an understanding of how computers represent and manipulate information in a range of formats	
7 Sep	Microbit More complex programs Mini Project Mini Project	Designing, building and testing computing solutions	I can select appropriate development tools to design, build, evaluate and refine computing solutions based on requirements TCH 3-15a	Writes code which receives and responds to real world inputs (in a visual language).	
	• Mini Project	Understanding and analysing computing technology	I can describe the structure and operation of computing systems which have multiple software and hardware levels that interact with each other.	Demonstrates an understanding that computers translate information processes between different levels of abstraction	
8 Sep	 Computer Systems Components of a network system How data is sent on a network Encryption and compression 	Understanding and analysing computing technology	I can describe the structure and operation of computing systems which have multiple software and hardware levels that interact with each other. TCH 3-14b	Demonstrate an understanding of how computers communicate and share information over networks including the concepts of sender, receiver, address and packets. Understands simple compression and encryption techniques used in computing technology	
9 Sep	Computer Systems	Searching, processing	I can use digital technologies to process and manage information	Gathers, evaluates and combines	Hardware and

	 Selecting the correct hardware Project Selecting the correct hardware Project Selecting the correct hardware - Project 	and managing information responsibly	responsibly and can reference sources accordingly. TCH 4-02a	data and information from a range of sources to create a publication, presentation or information resource.	animation 2
10 Oct	Computer Security and staying safe Online	Cyber resilience and internet safety	I can explore the impact of cyber-crime for business and industry and the consequences this can have on me. TCH 4-03a	Evaluates the digital footprint of industry and identifies good practice Identifies the main causes of security breaches in industry.	
11 Oct	Computer Security and staying safe Online Malware, bots and viruses Computer related laws and examples of	Cyber resilience and internet safety	I can explore the impact of cyber-crime for business and industry and the consequences this can have on me. TCH 4-03a	Demonstrates understanding of how cyber security breaches in industry can impact on individuals Demonstrates understanding of how industry collects and uses personal data ethically and how this relates to data	

12 Oct	 breaches Safe disposal of data and devices 	Designing, building	I can select appropriate development	security legislation. Designs and builds web pages using	
12 000	 Creating Websites How the Internet works and anatomy of a browser Hardware Revision of HTML tags and wireframing 	and testing computing solutions	tools to design, build, evaluate and refine computing solutions based on requirements TCH 3-15a	appropriate mark-up languages.	
13 Nov	 Using images (alt, width and height) Linking to other pages using (a) tag Creating ordered and unordered lists 	Designing, building and testing computing solutions	I can select appropriate development tools to design, build, evaluate and refine computing solutions based on requirements TCH 3-15a	Designs and builds web pages using appropriate mark-up languages.	HTML 1
14 Nov	Creating Websites Using foreground and background colours Using DIV tag	Designing, building and testing computing solutions	I can select appropriate development tools to design, build, evaluate and refine computing solutions based on requirements TCH 3-15a	Designs and builds web pages using appropriate mark-up languages.	

	and STYLE tags				
15 Nov	 Creating Websites Create a school website Create a school website Tables extension 	Designing, building and testing computing solutions	I can select appropriate development tools to design, build, evaluate and refine computing solutions based on requirements TCH 3-15a	Designs and builds web pages using appropriate mark-up languages.	HTML 2
16 Nov	Creating Websites Tables extension Adding interactivity with Javascript	Designing, building and testing computing solutions	I can select appropriate development tools to design, build, evaluate and refine computing solutions to process and present information whilst making reasoned arguments to justify my decisions. TCH 4-15a	Design and build web pages which includes interactivity.	Assessment 1
17 Dec	Game Design and Development Top 5 Games Tutorial 1 & 2 Heroes & Villains	Designing, building and testing computing solutions	I understand language constructs for representing structured information TCH 3-14a I can select appropriate development tools to design, build, evaluate and refine computing solutions based on requirements TCH 3-15a	Designs and builds a program using a visual language combining constructs and using multiple variables. Can find and correct errors in program logic.	
18 Dec	Game Design and Development Tutorial 3 Tutorial 4 Tutorial 5	Designing, building and testing computing solutions	I understand language constructs for representing structured information TCH 3-14a I can select appropriate development tools to design, build, evaluate and refine computing solutions based on requirements	Designs and builds a program using a visual language combining constructs and using multiple variables. Can find and correct errors in program logic. Writes code which receives and	

			TCH 3-15a	responds to real world inputs	
19 Dec	Game Design and Development SDD Process Tutorial 6 Polygons Tutorial 7	Designing, building and testing computing solutions	I understand language constructs for representing structured information TCH 3-14a I can select appropriate development tools to design, build, evaluate and refine computing solutions based on requirements TCH 3-15a	Designs and builds a program using a visual language combining constructs and using multiple variables. Can find and correct errors in program logic. Writes code which receives and responds to real world inputs	
20 Jan	Game Design and Development Tutorial 8 Variables Tutorial 9	Designing, building and testing computing solutions	I understand language constructs for representing structured information TCH 3-14a I can select appropriate development tools to design, build, evaluate and refine computing solutions based on requirements TCH 3-15a	Designs and builds a program using a visual language combining constructs and using multiple variables. Can find and correct errors in program logic. Writes code which receives and responds to real world inputs Interprets a problem statement, and identifies processes and information to create a physical computing and/or software solution.	
21 Jan	Game Design and Development Tutorial 10 Top 5 Enemies Tutorial 11 pt.1 Tutorial 11 pt.2	Designing, building and testing computing solutions	I understand language constructs for representing structured information TCH 3-14a I can select appropriate development tools to design, build, evaluate and refine computing solutions based on requirements TCH 3-15a	Designs and builds a program using a visual language combining constructs and using multiple variables. Can find and correct errors in program logic. Writes code which receives and responds to real world inputs	

				Interprets a problem statement, and identifies processes and information to create a physical computing and/or software solution.	
22 Jan	Game Design and Development Tutorial 11 pt.3 Personalise/Catch Up Showreel and Certificates	Designing, building and testing computing solutions	I understand language constructs for representing structured information TCH 3-14a I can select appropriate development tools to design, build, evaluate and refine computing solutions based on requirements TCH 3-15a	Designs and builds a program using a visual language combining constructs and using multiple variables. Can find and correct errors in program logic. Writes code which receives and responds to real world inputs Interprets a problem statement, and identifies processes and information to create a physical computing and/or software solution.	
23 Jan	Computer Security and staying safe Online Design and Create Website on Internet Safety and environmental issues Design and	Designing, building and testing computing solutions	I can select appropriate development tools to design, build, evaluate and refine computing solutions based on requirements TCH 3-15a I can select appropriate development tools to design, build, evaluate and refine computing solutions to process and present information whilst making reasoned arguments to justify my decisions. TCH 4-15a	Design and build web pages which includes interactivity.	Security 1

24 Feb	Create Website on Internet Safety and environmental issues • Design and Create Website on Internet Safety and environmental issues Computer Security and staying safe	Designing, building and testing computing	I can select appropriate development tools to design, build, evaluate and refine computing solutions based on	Design and build web pages which includes interactivity.	
	 Design and Create Website on Internet Safety and environmental issues Design and Create Website on Internet Safety and environmental issues Design and Create Website on Internet Safety and environmental issues Design and 	solutions	requirements TCH 3-15a I can select appropriate development tools to design, build, evaluate and refine computing solutions to process and present information whilst making reasoned arguments to justify my decisions. TCH 4-15a		

	Create Website on Internet Safety and environmental issues				
25 Feb	 Introduction to flat file database (structure) Field types and creating first access table from a data dictionary 	Understanding and analysing computing technology Designing, building and testing computing solutions	I understand language constructs for representing structured information TCH 3-14a I can select appropriate development tools to design, build, evaluate and refine computing solutions based on requirements	Demonstrates an understanding of structured information in programs, databases or webpages Identifies a set of characteristics describing a collection of related items that enable each item to be individually identified	Security 2
	 Using filters to find information quickly 		TCH 3-15a	Represents and manipulates structured information in programs, or databases for example, works with a list data structure in a visual language, or a flat file database.	
26 Feb	 Sorting a database Using queries Problem solving using access 	Understanding and analysing computing technology Designing, building and testing computing	I understand language constructs for representing structured information TCH 3-14a I can select appropriate development tools to design, build, evaluate and refine computing solutions based on	Identifies a set of characteristics describing a collection of related items that enable each item to be individually identified Represents and manipulates	

	database	solutions	requirements TCH 3-15a	structured information in programs, or databases for example, works with a list data structure in a visual language, or a flat file database.	
27 Feb	Database Database project at level 3/4 Database project at level 3/4 at level 3/4	Designing, building and testing computing solutions	I can select appropriate development tools to design, build, evaluate and refine computing solutions based on requirements TCH 3-15a	Represents and manipulates structured information in programs, or databases for example, works with a list data structure in a visual language, or a flat file database.	Database 1
28 Mar	Programming in VB.Net • User interface and the form and toolbox • Working with text and variables • Practical work	Designing, building and testing computing solutions		Understands basic control constructs such as sequence, selection repetition, variables and numerical calculations in a textual language Demonstrates an understanding of how visual instructions and textual instructions for the same construct are related Identifies and explains syntax errors in a program written in a textual language	Revision homework 2
29 Mar	Programming in	Designing, building and testing	I can select appropriate development tools to design, build, evaluate and	Writes a program in a textual language which uses variables	

	 VB.Net Types of variables Using textboxes for input and output Practical work 	computing solutions	refine computing solutions to process and present information whilst making reasoned arguments to justify my decisions. TCH 4-15a	within instructions instead of specific values where appropriate.	
30 Mar	Programming in VB.Net • Practical work • Arithmetic and concatenating text and variables • Practical work	Designing, building and testing computing solutions	I can select appropriate development tools to design, build, evaluate and refine computing solutions to process and present information whilst making reasoned arguments to justify my decisions. TCH 4-15a	Writes a program in a textual language which uses variables within instructions instead of specific values where appropriate.	
31 Mar	Programming in VB.Net Designing using pseudocode, DFD and structure diagrams Using Inputbox for input Practical work	Designing, building and testing computing solutions	I can select appropriate development tools to design, build, evaluate and refine computing solutions to process and present information whilst making reasoned arguments to justify my decisions. TCH 4-15a	Creates a design using accepted design notations for example, pseudocode storyboarding, structure diagram, data flow diagram, flow chart	Assessment 2
32 April	Programming in VB.Net • Simple selection using the IF	Designing, building and testing computing solutions	I can select appropriate development tools to design, build, evaluate and refine computing solutions to process and present information whilst making reasoned arguments	Debugs code and can distinguish between the nature of identified errors e.g. syntax and logic.	

	statement		to justify my decisions.	Writes test and evaluation reports	
	 Practical work 		TCH 4-15a		
	 Using conditional 				
	loops	D : 1 111			
33	Programming in	Designing, building and testing	I can select appropriate development tools to design, build, evaluate and	Writes a program in a textual language which uses variables and	
April	VB.Net	computing	refine computing solutions to	constructs such as sequence,	
	 Practical work 	solutions	process and present information	selection and repetition.	
	 Using Fixed loops 		whilst making reasoned arguments	Can make use of logical operators –	
	Complex		to justify my decisions. TCH 4-15a	AND, OR, NOT.	
	conditions using			, ,	
	AND, OR and NOT				
	with selection				
34 May	Programming in	Designing, building and testing computing	I can select appropriate development tools to design, build, evaluate and	Interprets a problem statement, and identifies processes and	
	VB.Net		refine computing solutions based on	information to create a physical	
	 Practical project 	solutions	requirements	computing and/or software	
	"Scotland's got		TCH 3-15a	solution.	
	Talent" – this			Can find and correct errors in	
	covers aspects of			program logic	
	level 3 and 4				
	Outcome for				
	programmingPractical project				
	Practical projectPractical project				
35 May		Designing, building	I can select appropriate development	Interprets a problem statement,	
33 iviay	Programming in	and testing	tools to design, build, evaluate and	and identifies processes and	
	VB.Net	computing	refine computing solutions based on	information to create a physical	
	 Practical project 	solutions	requirements	computing and/or software	

Practical project Can find and correct errors in	
program logic	
Programming in VB.Net Practical project Practical project Practical project TCH 4-15a Designing, building and testing computing solutions to process and present information whilst making reasoned arguments to justify my decisions. TCH 4-15a Analyses problem specifications across a range of contexts, identifying key requirements. Writes a program in a textual language which uses variables and constructs such as sequence, selection and repetition Creates a design using accepted design notations for example, pseudocode storyboarding, structure diagram, data flow diagram, flow chart. Debugs code and can distinguish between the nature of identified errors e.g. syntax and logic. Writes test and evaluation reports.	