



S' Oswald's
C of E Primary School, Gislehey

Computing Long-Term Plan

Term		R	1	2	3	4	5	6
School Value	Kindness							
Autumn 1	Teach Computing		<p>Computing Systems and Networks - Tech Around Us</p> <ol style="list-style-type: none"> Tech in our classroom Using Computer Technology Developing Mouse Skills Using a Computer Keyboard Developing Keyboard Skills Using a computer 	<p>Computing Systems and Networks - IT Around Us</p> <ol style="list-style-type: none"> What is IT? IT in school IT in the world The benefits of IT Using IT safely Using IT in different ways 	<p>Computing Systems and Networks</p> <p>Connecting Computers</p> <ol style="list-style-type: none"> How does a digital device work? What parts make up a digital device? How do digital devices help us? How am I connected? How are computers 	<p>Computing Systems and Networks</p> <p>The Internet</p> <ol style="list-style-type: none"> Connecting networks What is the internet made of Sharing information What is a website? Who owns the web? Can I believe what I read? 	<p>Computing Systems and Networks</p> <p>Systems and Searching</p> <ol style="list-style-type: none"> Systems Computer systems and us Searching the web Selecting search results How search results are ranked How searches are influenced 	<p>Computing Systems and Networks</p> <p>Communication and Collaboration</p> <ol style="list-style-type: none"> Internet addresses Data packets Working together Shared working How we communicate Communicating responsibly

			responsibility		connected? 6. What does our school network look like?			
	Project Evolve	Online relationship	Online relationships	Online relationship	Online relationships	Online relationships	Online relationships	Online relationships
	Other		Software requirements: Free resource - paintz.app Or any other free paint website/app	Software requirements: Google slides or Microsoft powerpoint	Lesson 6 includes a 'network tour', which involves identifying key parts of the school network. You will need access to school's server, switch, and wireless access points	Software requirements: Chrome Music Lab	Software requirements: The internet	Software requirements: The internet and Microsoft powerpoint
	Visits/Visitors/Events							
School Value	Courage							
Autumn 2	Teach Computing		Creating Media - Digital Painting	Creating Media - Digital Photography	Creating Media	Creating Media	Creating Media	Creating Media

			<ol style="list-style-type: none"> How can we paint using computers Using Shapes and Lines Making Careful Choices Why did I choose That? Painting all by Myself Comparing Computer art and painting 	<ol style="list-style-type: none"> Taking Photographs Landscape or portrait? What makes a good photograph? Lighting Effects Is it real? 	Stop Frame Animation <ol style="list-style-type: none"> Can a picture move? Frame by frame What's the story? Picture perfect 	Audio Production <ol style="list-style-type: none"> Recording sound Editing audio Planning a podcast Creating a podcast Behind the scenes Evaluating podcasts 	Video Production <ol style="list-style-type: none"> What is video Filming techniques Using a story board Planning a video Importing and editing a video Video evaluation 	Web Page Creation <ol style="list-style-type: none"> What makes a good website? Becoming a web designer Copyright or COPYWRO NG? How does it look? Follow the breadcrumbs Think before you link!
Project Evolve	Self-image and identity Privacy and security	Self-image and identity Privacy and security	Self-image and identity Privacy and security	Self-image and identity Privacy and security	Self-image and identity Privacy and security	Self-image and identity Privacy and security	Self-image and identity Privacy and security	Self-image and identity Privacy and security
Other		Software requirements: Free resource - paintz.app	Software requirements: Photoshop on the ipads	Software requirements: Imotion	Software requirements: <i>'Audacity'</i> To be downloaded onto laptops for this unit	Software requirements: iMotion	Software requirements: The unit has been designed using google sites, however you can use powerpoint to design your website - using	

			Or any other free paint website/app					hyperlinks to move from slide to slide
	Visits/Visitors/events							
School Value	Wonder							
Spring 1	Teach Computing	Programming A	Programming A - Moving A Robot <ol style="list-style-type: none"> Buttons Directions Forwards and Backwards Four Directions Getting There Routes 	Programming A - Robot Algorithms <ol style="list-style-type: none"> Giving instructions Same but different Making predictions Mats and Routes Algorithm design Debugging 	Programming A - Sequencing Sounds <ol style="list-style-type: none"> Introducing scratch Programming sprites Sequences Ordering commands Looking good Making an instrument 	Programming A Repetition in Shapes <ol style="list-style-type: none"> Programming a screen turtle Programming letters Patterns and repeat Using loops to create shapes Breaking things down Creating a program 	Programming A Selection in Physical Computing <ol style="list-style-type: none"> Exploring conditions Selecting outcomes Asking questions Planning a quiz Testing a quiz Evaluating a quiz 	Programming A Variables in Games <ol style="list-style-type: none"> Introducing variables Variables in programming Improving a game Becoming a games designer Design to code Improving and sharing

	Project Evolve	Health, well-being and lifestyle Online bullying	Health well-being and lifestyle Online bullying	Health, well-being and lifestyle Online bullying	Health well-being and lifestyle Online bullying	Health, well-being and lifestyle Online bullying	Health well-being and lifestyle Online bullying	Health well-being and lifestyle Online bullying
	Other		Software requirements: You will need Bee-Bots for this topic.	Software requirements: Bee-bots are required for this topic	Software requirements: Scratch – web app, you may want to set up a teacher account	Software requirements: Use J2Logo Level website	Software requirements: Crumble kits. Email Guiseley high to ask if we can loan this equipment.	Software requirements: Scratch. Children can access the web app.
	Visits/Visitors/events	Safer Internet Day	Safer Internet Day	Safer Internet Day	Safer Internet Day	Safer Internet Day	Safer Internet Day	Safer Internet Day
School Value	Perseverance							
Spring 2	Teach Computing		Data and Information - Grouping Data 1. Label and match 2. Group and count 3. Describe an object 4. Making different groups 5. Comparing groups	Data and Information – Pictograms 1. Counting and comparing 2. Enter the data 3. Creating pictograms 4. What is an attribute? 5. Comparing people 6. Presenting information	Data and Information Branching Data bases 1. Yes or no questions 2. Making groups 3. Creating a branching database 14. Structuring a branching database	Data and Information Data Logging 17. Answering questions 18. Data collection 19. Logging 20. Analysing data 21. Data for answers 22. Answering my question	Data and Information Flat-file Database 1. Creating a paper-based database 2. Computer databases 3. Using a database 4. Using search tools	Data and Information Introduction to Spreadsheets 1. Collecting data 2. Formatting a spreadsheet 3. What's the formula 4. Calculate and duplicate

			6. Answering questions		15. Planning a branching database 16. Two ways of presenting information		5. Comparing data visually 6. Databases in real life	5. Event planning 6. Presenting data
	Project Evolve	Managing online information	Managing online information	Managing online information	Managing online information	Managing online information	Managing online information	Managing online information
	Other		Laptops needed	Software requirements: Websites: j2e pictogram j2e chart	Software: You will need access to J2 data free tools via here https://www.j2e.com/jit5#branch	Data loggers will need to be bought or loaned from Guiseley high. C.M in process of figuring this out	Software: You will need access to J2 data free tools via here https://www.j2e.com/jit5#branch	Software: Microsoft Excel
	Visits/Visitors /events							
School Value	Excellence							
Summer 1	Teach Computing		Creating Media - Digital Writing 1. Exploring the Keyboard	Creating Media - Digital Music 1. How music makes us feel 2. Rhythms and patterns 3. How music can be used 4. Notes and tempo 5. Creating digital music	Creating Media Desktop Publishing 1. Words and pictures	Creating Media Photo Editing 1. Changing digital images	Creating Media Introduction to Vector Graphics	Creating Media 3D Modelling 1. Intro to 3D modelling 2. Modifying 3D objects

			<ul style="list-style-type: none"> 2. Adding and removing text 3. Exploring the Toolbar 4. Making changes to text 5. Explaining my choices 6. Pencil or keyboard 	<ul style="list-style-type: none"> 6. Reviewing and editing music 7. How 8. How music 	<ul style="list-style-type: none"> 2. Can you edit it? 3. Great template! 4. Becoming a designer 5. Lay it out 6. Why desktop publishing ? 	<ul style="list-style-type: none"> 2. Recolouring 3. Cloning 4. Combining 5. Creating 6. Evaluating 	<ul style="list-style-type: none"> 1. The drawing tools 2. Creating images 3. Making effective drawings 4. Layers and objects 5. Manipulating objects 6. Becoming a graphic designer 	<ul style="list-style-type: none"> 3. Make your own name badge 4. Making a desk tidy 5. Planning a 3D model 6. Make your own 3D model
Project Evolve	Online reputation	Online reputation	Online reputation	Online reputation	Online reputation	Online reputation	Online reputation	Online reputation
Other		<p>Word processing software: microsoft word.</p> <p>Dancemat is a great tool to teach children to touchtype</p> <p>https://www.dancemattypinggguide.com/dance-mat-</p>	<p>Chrome music lab:</p> <p>https://musiclab.chromeexperiments.com/Experiments</p>	<p>CHILDREN REQUIRE PARENTAL PERMISSION TO USE CANVA.</p> <p>Invite link below:</p> <p>https://www.canva.com/help/invite-teachers-and-students/</p>	<p>Getpaint.net is suggested. PhotoPea is a suitable alternative for photo editing</p> <p>https://www.photopea.com/</p>	<p>MTP suggests using Google drawings. Draw.io is a suitable alternative</p> <p>https://app.diagrams.net/</p>	<p>Teachers will need to create an account on TinkerCAD:</p> <p>TinkerCAD</p>	

			typing-level-1/stage-1/					
	Visits/Visitors/events							
Summer 2	Teach Computing		<p>Programming B Programming Animations</p> <ol style="list-style-type: none"> 1. Comparing tools 2. Joining Blocks 3. Make a change 4. Adding sprites 5. Project design 6. Following my design 	<p>Programming B - Programming Quizzes</p> <ol style="list-style-type: none"> 1. Giving Instructions 2. Same but different 3. Making Predictions 4. Mats and Routes 5. Algorithm design 6. Debugging 	<p>Programming B Events and Actions in Programs</p> <ol style="list-style-type: none"> 1. Moving a sprite 2. Maze movement 3. Drawing lines 4. Adding features 5. Debugging movement 6. Making a project 	<p>Programming B Repetition in Games</p> <ol style="list-style-type: none"> 1. Using loops to create shapes 2. Different loops 3. Animate your name 4. Modifying a game 5. 	<p>Programming B Selection in Quizzes</p> <ol style="list-style-type: none"> 23. Exploring conditions 24. Selecting outcomes 25. 	<p>Programming B Sensing Movement</p> <ol style="list-style-type: none"> 1. The micro:bit 2. Go with the flow 3. Sensing inputs 4. Finding your way 5. Designing a step counter 6. Making a step counter
	Project Evolve	Copywrite and ownership	Copywrite and ownership	Copywrite and ownership	Copywrite and ownership	Copywrite and ownership	Copywrite and ownership	Copywrite and ownership
	Other		ScratchJr ipad app is needed	ScratchJr Ipad app is needed	Scratch online is free to use – You will need to create a	Scratch online is free to use – You will need to create a	Scratch online is free to use – You will need to create a	You will need to use a Micro:Bit. Contact Guiseley high

					teacher account to save childrens work.	teacher account to save childrens work.	teacher account to save childrens work.	for these, they may come to us to each it or you could travel there for a lesson.
	Visits/Visitors/events							