Fairisle Junior School Overview of Computing Skills 2021-2022

	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
Year 3 Project:	*Plastic Sucks!*	*Going, Going Scone!*	*Misunderstood Monsters*	*Rocking Through Time*	*Groovy Greeks*	
Skills:	**Digital Literacy** I can recognise the impact of cyberbullying by creating my own "Zip it" animation. **Information Technology** I am learning to publish my work on to Google Docs • Log in to chrome books / google drive • Use a range of digital services (animate anything) **Computer Science** I am learning to understand what computational thinking is and how the skills are used is different areas of my life.	**Digital Literacy** I am learning to understand the reasons why people use passwords (everyday uses – banking etc), and discover strategies for creating and keeping strong, secure passwords. **Information Technology** I am learning to use word processing software (Google Docs) • Use Caps lock/shift for capital letters • Make a new line by pressing enter/return • I can use FS and comma in my typing • I can use cut, copy, paste shortcuts to duplicate and organise text **Computer Science** I am learning to use sequencing in animation. • Select backdrop and sprites. • Motion - Glide, move, direction, go to. • Looks - Size, say, switch backdrop. • Sound - Use Search function • Use Event commands - Green flag, space bar	**Digital Literacy** I am learning to understand how <u>SCREEN TIME & ONLINE GAMING</u> impacts mental health and develop ways manage my behaviour to support my mental health. **Information Technology** I am learning to use data processing software (Google Sheets) • Input simple data into a spreadsheet from a tally chart • I can create and edit a simple chart showing my data (bar chart) • Understand simple formula (+, = SUM) **Computer Science** I am learning to use sequencing to write a conversation between sprites. • Select backdrop and sprites • Motion - glide, move, direction, go to • select backdrop and 2 sprites • looks - say, think • move - steps • control - wait	**Digital Literacy** I am learning to understand how to use keyword search to produce the best results and what influences the order of results. I am learning to understand that all websites are not equally good sources of information. **Information Technology** I am learning to use presentation software (Google Slides) to create a poster. • Use text, images, theme, use of shortcuts and understand there are different ways to do the same action **Computer Science** I am learning to understand that computers in a school are connected together in a network and why they are networked and the difference between the internet and the WorldWideWeb (WWW).	**Digital Literacy** I understand what is meant by the term identity. I am learning to explain how I can represent myself online in different ways (e.g. gaming, using avatar, social media. **Information Technology** I am learning to create and edit video content (iMovie) • Understand what a video is. • Identify different devices **Computer Science** I am learning to use repetition to create shapes • Pen extension block • move (steps) • direction repeat	**Digital Literacy** I am learning to explain why I should be careful who I trust online and I understand the differences between knowing someone online and in real life. **Information Technology** I am learning to write and send emails to a group **Computer Science** I am learning to use repetition to music (music block). • Music extension • Select backdrop and sprites • Select notes and tempo • Repeat (number of times) • Forever loop

Year 4 Project:	Journey to the Jungle	You're Gonna Hear Me Roar	I Came, I Saw, I Conquered	Mummy Mayhem	A Taste of Paradise	Bright Sparks
Skills:	COMPUTATIONAL THINKING: I am learning to describe the principles of computational thinking (unplugged) WORD PROCESSING: I am learning to: • Confidently and regularly use shortcuts. • Use appropriate font sizes for A&P. Use spell check and thesaurus through siri and other AI tech. • Combine digital images from different sources in to one document (e.g. poster, leaflet, ebook, non-chron)	PRIVACY & SECURITY: I am learning to understand how people can have different personas online and the information shared must be appropriate to the context. I am exploring different ways to share information but I understand that information can be provide in a way that doesn't put me at risk. Starter: Computational thinking: Sequence SCRATCH : I am learning to use Repetition in Translating a language • Upload backdrop (french flag) • Looks – speech • Sensing - ask and wait • Translation block. • Control - forever	SAFER INTERNET DAY – WELLBEING: I am learning to understand how CYBER-BULLYING can impact mental health and develop ways to manage my behaviour to support my mental health. DATA HANDLING: I am learning to • Collect data using a tally chart. • Input & format data in to a spreadsheet • Create different charts and edit these (bar chart, pie chart). • Understand simple formula (x / - + = SUM %) Starter: Computational thinking: Decomposition SCRATCH: I am learning to use repetition with variables in a voting app. • Upload Backdrop • Variable - Create a new variable name • Variable - set and change by. • Costume - switch • Events - Using two • Sound - Start sound • Have two sprites.. • Repetition forever and for 10 - Costumes.	INFORMATION LITERACY: I am learning to examine product websites and understand that their purpose is to encourage buying of the product and understand they have different methods to promote products on their site. PRESENTATION: I am learning to • Create a presentation formatting (text, images, theme) relevant to the audience • Enhance presentation to include video Starter: Computational thinking: Pattern. NETWORKS: I am learning to understand that servers on the internet are located across the planet and how email is sent across the internet and how the internet enables us to collaborate.	SELF IMAGE: I can explain what online identity means and how it can be different from the identity I present in 'real life'. Knowing this I can describe the right decisions about how I interact with others online. VIDEO CREATION I am learning to: • Record a video. • Begin using iMovie Starter: Computational thinking: abstraction SCRATCH: I am learning to use Variables to create a custom generated story. • Upload Backdrop and sprite. • Variable - Create • Sense - Ask and wait • Operator - Join. • Repetition - Forever and for 10 - Costumes	ONLINE RELATIONSHIPS & REPUTATION: I am learning to describe strategies for safe and fun experiences in a range of online social environments. I am learning how to make positive contributions to online communities. EMAIL COMMUNICATION: I am learning to: • send and reply to emails I received. Starter: Computational thinking: Debug SCRATCHI am learning to use Variables in an animated catching game. • Looks - Show and Hide • Control – Forever • Motion - Go to random position • Operators - Pick random 1 to 4. • Variables - Set and change • Control - when sprite is clicked. • Looks - Set size

Year 5 Project:	To Infinity & Beyond	The End of the World?	Crime & Punishment	The Rainbow Bridge	Down by the River	Guilty or not guilty?
Skills:	COMPUTATIONAL THINKING: I am learning to explain the principles of computational thinking (Unplugged).	PRIVACY & SECURITY: I am learning to understand what the motives behind online impersonation are. I am learning to explain how many free online apps / services may share my personal information and explain why some apps may request payment for which I must seek permission from a trusted adult first. WORD PROCESSING: I am learning to: • Apply useful effects such as hyperlinks, pictures, charts & tables to a document (including formatting cells). • Organise and reorganise text on a screen to suit a purpose Starter: Computational thinking: Sequence SCRATCH: I am learning to use • selection and variables to create a simple quiz. • Import backdrop and sprite. • Variables - Counting the score. • Selection - If ... then ... Else. • Sensing - Ask and wait	SAFER INTERNET DAY – WELLBEING: I am learning to understand how harmful comparisons SELF IMAGE impacts mental health and develop ways manage my behaviour to support my mental health. DATA HANDLING: I am learning to Create my own online questionnaire (using forms). • Export data in to different formats. Understand simple formula (%, x - + / SUM). • Edit cells. Use an appropriate graph to display my results (bar chart, pie). Starter: Computational thinking: Decomposition SCRATCH: I am learning to use • selection and operators in a classification model. • Import backdrop and sprite. • Sensing - Ask and wait. • Selection - If ... then ... Else. • Operators - Answer = Yes OR Answer = Y. • Repetition – Forever	INFORMATION LITERACY: I am learning to use different strategies to increase the accuracy of search results and make inferences about the effectiveness of these strategies. I am learning how results are ranked in search engines. PRESENTATION: I am learning to create a presentation formatting (text, images, theme) relevant to the audience. • Enhance presentation to include multimedia, animations, transitions , customise the background. Starter: Computational thinking: Pattern. NETWORKS: I am learning to understand how we view web pages on the internet, how to search technologies effectively, how web spiders index the web and how pages are ranked in a search engine.	FAKE NEWS: I am learning to understand to question the things I see and read on the internet. VIDEO CREATION: I am learning to understand what makes an effective video. Create my own video. Starter: Computational thinking: abstraction SCRATCH: I am learning to use selection and operators in an animation. • Control - when ... key pressed. • Sensing - Ask and Wait. • Selection - If ... then ... Else. • Looks - Say ... for ... seconds	ONLINE RELATIONSHIPS & REPUTATION: I can show I understand my responsibilities for the well-being of others in my online social group and I am learning to demonstrate how I would support others online. Learn how to communicate effectively by email. EMAIL COMMUNICATION: I am learning to add attachments to emails. Starter: Computational thinking: Debug. SCRATCH: I am learning to use selection and operators with sensing to create a game that includes losing health. • Control - Green flag. • Sensing - Ask and Wait. • Selection - If ... then ... Else. • Looks - Say ... for ... seconds. • Variable - Set and change score.

Year 6 Project:	I'm a Survivor!		Keep Calm and Carry On		The Show Must Go On	
Skills:	**Digital Literacy** I can recognise the impact of cyberbullying by creating my own "Zip it" animation. **Information Technology** I am learning to publish my work on to Seesaw (Google Docs) • Log in to chrome books / google drive • Use a range of digital services (animate anything) **Computer Science** I am learning to understand what computational thinking is and how the skills are used is different areas of my life.	**Digital Literacy** I can explain why it's important to keep passwords safe and secure. I can describe ways which some online content (scams/ phishing) targets people to gain money/information. **Information Technology** I am learning to use word processing software (Google Docs) • confidently apply useful effects such as hyperlinks, pictures, charts & tables to a document (including formatting cells) • independently format a document to suit its purpose. • independently choose the best application and format to demonstrate my learning **Computer Science** • I am learning to use a range of sequence, selection and repletion commands combined with variables as required to implement my design, including creating multiple sprites and broadcasts. • Create backdrop • Sensing • Broadcasting	**Digital Literacy** I am learning to understand how posting inappropriate things online can impact your REPUTATION and mental health. I am learning to develop ways to manage my behaviour to support my mental health to support my mental health. **Information Technology** I am learning to use data processing software (Google Sheets) • Create my own online questionnaire (using forms) • Use a range of formula to solve complicated maths problems, using BRACKETS (SUM, + - / * % AVERAGE) and SORTING • Use a range of formats to present the data • Use an appropriate graph to display my results (bar chart, pie chart) **Computer Science** I am learning to use video sensing to create my own game. • Video sensing block • repetition • sound • Variables	**Digital Literacy** *I am learning to understand copyright, fair use, and the rights they have as creators.* **Information Technology** Create a website (sites) • images and descriptions, • hyperlinks • formatting relevant to purpose **Computer Science** I am learning to identify and use basic HTML tags and remix a web page, and to create my own webpage using HTML using trinket.	**Digital Literacy** I am learning to explain how the media can shape ideas about gender and challenge why it's important to reject inappropriate messages. **Information Technology** I am learning to create and edit video content (iMovie) • cutaway, • split screen, • picture in picture **Computer Science** *I am learning to use clones to create games using more than one sprite.* • Clones. • adding comments • Variables • Operators • If then • Repetition • Create sprites	**Digital Literacy** I understand how people and organisations influence others online and I can explain strategies to assess the degree of trust I place in people and organisations online and I can explain the action I should take if I am concerned. **Information Technology** I am learning to write and send emails to a group • Autosignatures **Computer Science** *I am learning to create procedures to hide complexity in programs and to reuse code.* • Creating blocks to reuse code • Broadcasting between sprites • Clones • adding comments • Variables • Operators • If then • Repetition • Create sprites