Computing curriculum overview

Stanton Bridge Primary School.

	Autumn	Spring	Summer
Year 1	**Globetrotters** Create a class section for the website. E-safety, networking. Create illustrations for pop-up book using 'paint' and 'splosh'. We are celebrating – creating a Christmas card. **Skills**: creating, organising and storing digital content, recognising uses of technology beyond school and understanding how to safe online. **Technology**: Paint, Splosh	**Far, Far Away** Create a floor map of Shrek forest and programme Bee-bot to follow a path. We are story tellers – creating a talking book (Shrek) **Skills**: creating, organising and storing digital content, understanding and using simple algorithms and debugging simple programs **Technology**: Bee-bots, Book creator	**Hats & Shades, Buckets & Spades** Create a fairground ride for the beach using Lego We-do. We are collectors, finding pictures on the web of the seaside. Organise and adapt them. **Skills**: creating, organising and storing digital content, understanding and using simple algorithms and debugging simple programs **Technology**: Lego We-do, use of internet, photo gallery.

	Globetrotters	Sparks will Fly	Masterchef
Year 2	💻 Create a class section for the website. E-safety, networking. 💻 Design, create and evaluate a motorised vehicle using Lego We-do. 💻 We are photographers. **Skills**: creating, organising and storing digital content, understanding and using simple algorithms and debugging simple programs, using technology to create digital content. **Technology**: Word processor, Lego We-do, use of internet, photo gallery.	💻 Use 'Book creator' to create a book that tells the story of the great fire of London. 💻 We are researchers (Researching the great fire of London and presenting images as a presentation). **Skills**: creating, organising and storing digital content, typing and presenting information, using the internet to find and organise information, communicating findings to other, understanding how we can use technology beyond school. **Technology**: Book creator app (IPads), use of the internet, powerpoint.	💻 Plan, research and create recipes for a healthy meal. 💻 Create a game using food (e.g. bad food=lose a life, healthy food=bonus points) 💻 Sending emails to request information. **Skills**: creating, organising and storing digital content, creativity, programming digital toys, using technology to create and retrieve digital content, recognise common uses of technology. **Technology**: Scanner, camera, word processor, bee-bots, email

	Globetrotters	Mythical Museum	Dinosauria
Year 3	Create a class section for the website. E-safety, networking. Create a class website for popular foods. Plan, film and edit a cookery show linked to DT cookery. **Skills**: blogging, creating, presenting, and editing data, filming and editing footage, using a variety of software to create programmes, collecting and presenting data, presenting data to peers, using technology safely, respectfully and responsibly. **Technology**: Class blogger, IMovie, Google Forms	Make interactive information texts for the museum using Robots. Grow plants, take photographs of the growth and create a film to show the progress. (Blue Planet style) **Skills**: Collecting and presenting data, editing and uploading footage, presenting and communicating findings, word processing using office tools, using a variety of software to create programmes. **Technology**: Book creator, I movie, QR codes.	Research Dinosaurs (Wikipedia/validity of information) Create an animation to tell a story about dinosaurs/volcanoes/earthquakes. Create a dinosaur game. (de-bugging, we are bug fixers) **Skills**: Using search technologies effectively, using stop motion animation, use logical reasoning to explain how algorithms work, use sequence, selection and repetition in programmes and debugging a simple game. **Technology**: Internet, animator app, scratch

Londinium	The Marauders	Volts & Bolts
Create a class section for the website. E-safety, networking (how a search engine works) Create a Wiki page on London. Each group creates a linked page for the landmark they have visited. Use images they take on their trip. Scratch project: creating an online game.	Weather project. Use data logging equipment to record weather. Record and present results. Create a weather report. Create a web page about the marauders. (We are HTML editors)	History of computing/the internet. Using scratch to design a moving toy.
Skills: Blogging, using technology safely and respectfully using a variety of software to design and create programmes, evaluating and presenting date in the form of a wiki page creation and coding, editing wiki pages collectively, coding and debugging and then resolving.	**Skills**: Using data loggers to collate and present information, creating spreadsheets and graphs. Presenting data, HTML editing, publishing information digitally.	**Skills**: Using search technologies effectively, understanding how computer networks can provide multiple services and how they work together, using software to design a prototype, developing an algorithm and correcting errors, use sequence, selection and repetition in programs, evaluating and pitching ideas, use software to present information.
Technology: wiki page creator (simplesite.com), Purple mash blogger, scratch.	**Technology**: data loggers, excel document, power point, google googles, HTLM editor.	**Technology**: scratch, book creator

Year 4

	Globetrotters	Infinity & Beyond	Castle Attack!
Year 5	Create a class section for the website. E-safety, networking (how a search engine works). NAO robots project 1 – create a talking waiter. NAO robots project 2 – use robots to create a piece of art. **Skills**: Blogging, using technology safely and respectfully using a variety of software to design and create programmes, using variables and various forms of inputs and outputs. using logical reasoning to explain how some algorithms work and debugging errors. **Technology**: wiki page creator (simplesite.com), Purple mash blogger, scratch. Choreographer, simple site.	Create a space game using scratch. Programme robot to describe the instructions for the game (choreographe) Blog about trip to space centre. **Skills**: design, write and debug programmes, use repetition and variables to form outputs, use reasoning to suggest how some algorithms work, select, use and combine software on a range of devices to present information. **Technology**: scratch, choreographe, edublog.com	Develop knowledge of 3D Computer Aided Design (CAD) to design a house, followed by a trebuchet. **Skills**: design, write and debug programmes, use repetition and variables to form outputs, use reasoning to suggest how some algorithms work, select, use and combine software to achieve a given goal, evaluating and improving our work over time. **Technology**: sketch up app

Year 6	**Globetrotters**	**Tomb Raiders**	
	Create a class section for the website. E-safety, networking (how a search engine works) Design and create an app (deliveroo, just eat) **Skills**: Blogging, using technology safely and respectfully using a variety of software to design and create programmes, evaluating and presenting data, using sequence, selection and repetition in programmes, working with variables and various forms of input and output, understanding computer networks including how they can offer opportunities for collaboration. **Technology**: Pineapple app, wiki page creator, edu blog, iPad.	Egyptian music video project – create a piece of music and a video including NAO robots. Combing all you have learnt in KS2 for a project. **Skills**: Using a variety of software to design and create programmes, evaluating and presenting data, using sequence, selection and repetition in programmes, working with variables and various forms of input and output, designing, writing and debugging programs, using search technologies to evaluate digital content. **Technology**: Garage band app, I Movie, Nao Robots, choreographe.	