to de Creeu bludge con

Newington Green Primary School

Computing Objectives

	KS1	KS2
Computer Science CS	Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions	Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts
	2. Create and debug simple programs3. Use logical reasoning to predict the behaviour of simple programs	 use sequence, selection, and repetition in programs; work with variables and various forms of input and output Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs Understand computer networks including the internet; how they can provide multiple services such as the World Wide Web
Information	1. Use to obnology purposefully to	5. Appreciate how [search] results are selected and ranked
Technology IT	Use technology purposefully to create, organise, store, manipulate and retrieve digital content	Use search technologies effectively Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information
Digital Literacy DL	 Recognise common uses of information technology beyond school Use technology safely and 	 Understand the opportunities [networks] offer for communication and collaboration Be discerning in evaluating digital
	respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies	content 3. Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact





Year 1			Remember Now>Press>Play
Term:	Term/Topic:	Computing PPA aims/outcomes:	Possible in class outcomes:
Autumn 2018	Transition (RF)	 Basics of using EdTech in school: login, USO, PIN codes, keyboard skills LGfL, PurpleMash, Seesaw Hardware/Software Tech around us (local walk inc Oyster if possible) LGfL Big Day Out 	 Use Balloon Stickies + or Typorama to create 'Who am I' posters Combine video with QR codes to make digital postcards about themselves
	London (NG)	 Basics of using EdTech in school: login, USO, PIN codes, keyboard skills LGfL, PurpleMash, Seesaw Hardware/Software Tech around us (local walk inc Oyster if possible) LGfL Big Day Out 	 Tourist Guide to London including green screening using Sway (with support) or Book Creator 3D bus design (link to DT) and construction - PurpleMash
Spring 2019	Special People (RF)	 Image creation using J2e (mouse control, file navigation) Keyboard skills labelling (PurpleMash) Animation using Scratch Jr Simulations 	 Mashcams using PurpleMash Digital Art using PurpleMash or Paint 3D Green Screening with special people Posters using Typorama
	Weather (NG)	 Non-Fiction eBook using Book Creator (online or iPad) and green screening Beebots (& Fakebots) Data handling – pictogram J2e 	 Weather forecasting including iMovie and green screening BBC Weather Watchers
Summer 2019	How is it made? (RF)	 Non-Fiction eBook using Book Creator (online or iPad) and green screening Beebots (& Fakebots) Data handling – pictogram J2e technology use in the community - voting 	 Creating a digital advert for their toy using J2e or PurpleMash Computer Aided Design – linked to DT – Paint 3D Digital photography/filming shared on Seesaw
	It's Alive! (NG)	 Technology use in the community – medical equipment Image creation using J2e (mouse control, file navigation) Keyboard skills labelling (PurpleMash) Animation using Scratch Jr Simulations 	■ Mashcams ■ Green Screening





Year 2			Remember Now>Press>Play
Term:	Term/Topic:	Computing PPA aims/outcomes:	Possible in class outcomes:
Autumn 2018	Fire (RF and NG)	 Create an animation of Fire of London (J2e) Technology use in the community (999 calls) Create an Acrostic poem poster inc images (Word) 	 Green screening opportunities including new reports Writing a newspaper report Interactive display using QR codes to video content
	"How are you?"		 Use Audacity to create audio books Create an eBook using Book Creator Publish information leaflet about Anthony Browne using PurpleMash Write and blog book reviews using a template in J2e
Spring 2019	Into Africa (RF)	 Create a silhouette image (PowerPoint) Share learning using Sway inc video Create a story using Scratch Jr or Book Creator 	 Create tourist info posters using Typorama Data Handling – using J2e or PurpleMash Use Beebots to travel around Africa on a map Explore Africa using digital maps Use Google Expeditions to 'visit' Africa – eg Safari
	Habitats (NG)	 Data handling – charts/graphs (J2e and Excel) Explore/create a Branching Database Create a silhouette image (PowerPoint) Create a quiz (PurpleMash) 	 Create a Non-Fiction book using Book Creator or J2e Green screening into habitats – appsmash with Clips or iMovie for example Use Google Expeditions to 'visit' a variety of habitats worldwide eg Polar regions
Summer 2019	Nocturnal Animals (RF)	 Data handling – charts/graphs (J2e and Excel) Explore/create a Branching Database Create a quiz (PurpleMash) 	 Create digital artwork inc layering Make word clouds to support vocabulary
	The Stories People Tell (NG)	 Explore 'The parrots and the Raja' interactives Retell a traditional tale using Sway inc video Create a story using Scratch Jr or Book Creator 	 Green screening to retell stories Use audacity to create an audio book Explore Toontastic to tell a story





Year 3	Remember Now>Press>Play
i cui o	Remember 140 Walley

Teur 3	T	T =	Remember Now-Fress-Flay
Term:	Term/Topic:	Computing PPA aims/outcomes:	Possible in class outcomes:
Autumn 2018	Opposites (RF and NG)	 Explore Servers and Networks Investigate Web searches Send/receive email using PurpleMash or O365 Explore algorithms using Beebots 	 Create a quiz using Kahoot! or 2Quiz (PurpleMash) Write an author fact file using PurpleMash Share Book Reviews using FlipGrid
	The Big Dig		 Augmented and Virtual Reality using LGfL Romans resource Create a basic PowerPoint Google Expeditions
Spring 2019	Oceans and Seas (RF)	 Create a word search - Properties of tables in Word Digital versus analogue mapping to identify seas and oceans Possible Minecraft (if subscribed) or Paint 3D/Mixed Reality 	 Google Expeditions Green Screening into a scene from Flotsam Create an underwater animation using J2e, Scratch or Kodu
	Our Island Home (NG)	 Create a word search - Properties of tables in Word Digital versus analogue mapping to identify locations around the UK Possible Minecraft (if subscribed) or Paint 3D/Mixed Reality 	 Google Expeditions Green Screening into a scene from 'Way Home' Create an animation using J2e, Scratch or Kodu
Summer 2019	How Does Your Garden Grow? (RF)	 Stop Motion animation of a plant growing inc iMovie Explore using data loggers Data handling – tables/charts 	 Create travel brochure using PurpleMash, J2e, PowerPoint or Sway
	Light and Dark (NG)	 Interactive Scratch topic page Explore using data loggers Data handling – tables/charts Create a sunrise/sunset animation (PurpleMash) 	 Create digital newspaper article using a template Create interactive newsletter using Sway – inc video content Green screening on location





Year 4		Remember Now>Press>Play	
Term:	Term/Topic:	Computing PPA aims/outcomes:	Possible in class outcomes:
Autumn 2018	Chocolate (RF and NG)	 Computer Aided Design using Paint 3D Explore costings using Excel and formulae Conduct market research using Forms 	 Create a digital advert using Microsoft Sway inc appsmashing Create audio advert using Audacity or GarageBand Record poems using Green screening and iMovie Use the LGfL resource 'Maya' for Augmented Reality opportunities
	Food, Glorious Food!		 Green screen in historical or biological setting MashCams using PurpleMash Write digital diary using J2e or PurpleMash Google Expeditions linked to digestion etc Produce a leaflet/information booklet using PurpleMash or Book Creator
Spring 2019	Inventors (RF and NG)	 Introduction to the Micro:bit Create a doorbell for the deaf inc using Paint 3D to design Option of method to present to peers – eg PowerPoint, Book Creator, iMovie, Sway 	 Create a quiz using Kahoot! Write an algorithm as a series of instructions Green Screening and appsmashing Produce an explanation text about hearing using Book Creator Skype an inventor
Summer 2019	Save Our Planet (RF)	 Create a Non-Fiction PowerPoint (non-linear) highlighting the 3Rs Create and code an environment using CoSpaces 	 Write a film review using PurpleMash Create a movie trailer/review using iMovie Skype an environmentalist Retell the story using TextingStory
	Circus (NG)	 Create a Non-Fiction PowerPoint (non-linear) about the circus inc history Create and code a circus using CoSpaces 	 Create a story using Book Creator Write a 'pick your path' story using Forms (Branching) Share experiences using FlipGrid





Year 5			Remember Now>Press>Play
Term:	Term/Topic:	Computing PPA aims/outcomes:	Possible in class outcomes:
Autumn 2018	Space (RF and NG)	 Create a quiz using loops and variables linked to space Blogging inc sharing via social media Create 'Top Trump' cards based on planet data using j2e database 	 Explore the Space Adventures (inc VR) by LGfL inc maths, literacy and science links Google Expeditions Produce explanation text using Sway or Book Creator Use Kahoot! to create a quiz Create a space environment using CoSpaces Skype an astronaut
	Vikings and Saxons		 Augmented and Virtual Reality using LGfL resource 'Sigurd and the dragon' Write newspaper articles or produce news report using Word/PurpleMash/iMovie Green Screening
Spring 2019	Egyptians (RF)	 'Operation' style game project using Makey Makey, image manipulation, Scratch Document the project using Book Creator, Sway or iMovie Use forms to create a feedback method inc QR code 	 Retell 'The Highwayman' by creating a trailer or short movie using iMovie Record poetry using iMovie and Green Screening Create a quiz using Kahoot! Google Expeditions
	Jungle (NG)	 'Operation' style game project using Makey Makey, image manipulation, Scratch Document the project using Book Creator, Sway or iMovie Use Forms to create a feedback method inc QR code 	 Use Sway or Word to create a travel brochure/leaflet Use Book Creator to create persuasive content to support endangered animals Skype an environmentalist linked to animals
Summer 2019	The Olympics (RF)	 Explore flowcharts using traditional playground games Create and code an Olympic village/stadium environment using CoSpaces Olympic Torch/Flame - CAD using Google SketchUp or Paint 3D 	 Use green screening and iMovie to create a news report about 'The Iron Man' Produce an audio retelling of 'The Iron Man' using GarageBand and sound effects Google Expeditions Explore Excel linked to medals and results
	Build It High (NG)	 House design – CAD using Google SketchUp or Paint 3D Create and code a town/city environment using CoSpaces Explore flowcharts using traditional playground games 	 Use green screening and iMovie to create a news report about 'King Kong' Produce an audio retelling of 'King Kong' using GarageBand and sound effects Create a housing advert using J2e5, Word or Sway





Year 6			Remember Now>Press>Play	
Term:	Term/Topic:	Computing PPA	Possible in class outcomes:	
		aims/outcomes:		
Autumn 2018	Migration (RF and NG)	 Analogue versus digital questionnaires Create a questionnaire for the public using Forms – Branching option Data analysis using Excel (via Forms) Create a presentation using a variety of apps and programs of choice inc green screening and audio/visual 	 Green Screening opportunities throughout linked with digital diary writing – Sway, Word, PurpleMash, J2e Google Expeditions Skype an expert Create key quotes/concept posters using Typorama 	
Spring 2019	The Tudors (RF and NG)	 Explore website design using Mozilla X-Ray goggles Introduction to HTML Create a website about the Tudors using method of choice:- HTML or J2e5 inc embedded content Send/Receive email in character using O365 or PurpleMash mail 	 Google Expeditions Produce a news report using iMovie and green screening Retell parts of the story using TextingStory Create an author fact file using PurpleMash or Sway 	
Summer 2019	Changes (RF and NG)	 Appsmash to create 'All about my time at primary school' Presentation method of choice Virtual Tour of school using CoSpaces or Scratch 	 Write alternative 'pick your path' story using Forms – branching Record a diary entry and share using FlipGrid 	