Computing Overview 2026-2027

Year R	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
REVISIT BEFORE EVERY LESSON - Online Safety School Policy - Lock it, Block it, Show it, Tell it						
Computing -Teach	Online Safety and key skills School policy Logging on to Chromebooks	Programming & Algorithms: Beebots	Presenting Information & Mutlimedia: Purple Mash - 2paint PaintZ	Key skills Take photos Purple Mash – Mashcams iPad/cameras	Presenting Information & Mutlimedia Record voice/music	Data Purple Mash – 2count simple pictograms
Vocabulary	Keyboard, keys, screen, trackpad	Bee-Bot, forwards, backwards, turn, clear, go, commands, instructions, directions, left, right, route, plan, algorithm, program.	paint program, tool, paintbrush, erase, tool, colour, brush style, brush size, pictures, painting, computers	device, camera, photograph, capture, image, digital, landscape, portrait,	word processor, keyboard, keys, letters, type, numbers, space, backspace, text cursor, capital letters, toolbar, typing, writing	label, group, colour, size, shape, more, less, most, fewest, least, the same
Applied opportunities	N/A	Log on and explore Chromebooks	Beebots - Create simple routes	Purple Mash 2paint – create a picture	Purple Mash 2 create a story – add a photo	Create a story for your new teacher
How used in the world around them	Software engineer/ Network Engineer/E-commerce Manager	Web Developer	Mobile App Developer	Digital Content Creator/YouTuber/Vlogger	Video Game designer/Podcaster	Data Scientist
Important Computer Scientists	Charles Babbage - Invented the first mechanical/programmable computer	Grace Hopper - First to use the term 'de-bugging and developed COBOL, a programming language still used today	Ada Lovelace - The first computer programmer	Steve Wozniak and Steve Jobs - Co-founders of Apple and first programmable universal remote	Tim Berners-Lee - Inventor of the World Wide Web	Edgar F. Codd - invented the relational database - revolutionised the way in which data is stored and retrieved.
ONLINE SAFETY						
2BeSafe Online	Online relationships		Self image & self identity		Online Bullying	
PSHE/RHE	Get Heartsmart	Don't forget to let love in	Too much selfie isn't healthy	Don't hold onto what's wrong	Fake is a mistake	No way through isn't true

Year 1	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
REVISIT BEFORE EVERY LESSON - Online Safety School Policy - Lock it, Block it, Show it, Tell it						
Computing - NCCE Teach Computing	1.Computing systems and networks - Technology around us	2.Creating media - Digital painting	3.Programming A - Moving a robot	4.Data and information - Grouping data	6. Programming B - Programming animations	5.Creating media - Digital writing
Vocabulary	technology, computer, mouse, trackpad, keyboard, screen, double-click, typing	paint program, tool, paintbrush, erase, fill, undo, shape tools, line tool, fill tool, undo tool, colour, brush style, brush size, pictures, painting, computers	Bee-Bot, forwards, backwards, turn, clear, go, commands, instructions, directions, left, right, route, plan, algorithm, program.	object, label, group, search, image, property, colour, size, shape, value, data set, more, less, most, fewest, least, the same	ScratchJr, command, sprite, compare, programming, area, block, joining, start, run, program, background, delete, reset, algorithm, predict, effect, change, value, instructions, design.	word processor, keyboard, keys, letters, type, numbers, space, backspace, text cursor, capital letters, toolbar, bold, italic, underline, mouse, select, font, undo, redo, format, compare, typing, writing
Applied opportunities	Purple Mash Quizzes – Technology, Parts of a computer, keys. Log on and explore Chromebooks Type own class charter	Purple Mash - 2Paint a picture -eg Pointillism Digitally paint background for moving picture on Paintz Record storytelling/ music Digitally paint scenes from the nativity	Purple Mash – 2Go Unplugged direct a friend in the playground Beebots-create route maps around Ringwood	Purple Mash – 2Quiz,2DIY, 2Question J2edata – create own pictograms/bar charts	Purple Mash – 2Code and Great fire of London resources Scratchjnr Great fire animation	Type/design poster for pledges Purple Mash – 2Publish templates Type Blurb for Lonely Beast story
How used in the world around them	Software engineer/IT Project Manager/Network Engineer	Video Game designer/Digital Content Creator/Digital Comic Book maker/Art: Hal Lakso	Machine Learning Engineer/Robotics Engineer	Data Scientist	AR Creator/VR Creator/AI Developer	Digital Marketing Specialist/Podcaster/Influencer (Instagram&TikTok)
Important Computer Scientists	Charles Babbage - Invented the first mechanical/programmable computer	Tim Berners-Lee - Inventor of the World Wide Web	Ada Lovelace - The first computer programmer	Edgar F. Codd - invented the relational database - revolutionised the way in which data is stored and retrieved.	Grace Hopper - First to use the term 'de-bugging and developed COBOL, a programming language still used today	Bill Gates - founder of Microsoft - most successful operating system ever
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REVISIT BEFORE EVERY LESSON - Online Safety School Policy - Lock it, Block it, Show it, Tell it						
Computing – NCCE Teach Computing	1.Computing systems and networks - IT around us	4.Data and informationPictograms	3.Programming A- Robot algorithms	5. Creating media - Digital music	2. Creating media - Digital photography	6.Programming B - Programming quizzes
Vocabulary	Information technology (IT), computer, barcode, scanner/scan	more than, less than, most, least, common, popular, organise, data, object, tally chart, votes, total, pictogram, enter, data, compare, objects, count, explain, attribute, group, same, different, conclusion, block diagram, sharing	instruction, sequence, clear, unambiguous, algorithm, program, order, prediction, artwork, design, route, mat, debugging, decomposition	music, quiet, loud, feelings, emotions, pattern, rhythm, pulse, pitch, tempo, rhythm, notes, create, emotion, beat, instrument, open, edit.	device, camera, photograph, capture, image, digital, landscape, portrait, framing, subject, compose, light sources, flash, focus, background, editing, filter, format, framing, lighting,	sequence, command, program, run, start, outcome, predict, blocks, design, actions, sprite, project, modify, change, algorithm, build, match, compare, debug, features, evaluate, decomposition, code.
Applied opportunities	Log on and explore/Chromebooks/Purple Mash – Technology outside of school resources/2Connect/Type/ create Special Books presentations/display	Word processing – typing part of their animal riddles Paintz/Purple Mash- 2Publish – storyboard; 2 Create a story 2Paint a picture – ecollage/create scene from Christmas story.	Paintz/Purple Mash – 2Go, 2Code activities and debug challenges /Beebots– plan detailed routes for the Titanic/Green Screen Titanic scenes	Purple Mash – 2Sequence - compose tunes 2Explore and 2Beat- pulse and rhythm/Compose music for their Dragon stories/Digital photography - Easter cards with a photograph	Take photos/videos of teaching exercises for workshops/displays. 2Count, 2Graph/Unplugged pictograms/tally charts etc of data findings from exercise equipment for Fit for Life display/workshop	Purple Mash – 2Code/Sustainability emails/ digital pledges/presentations /use microphones/New Zealand quizzes/parent evaluation of visitor centre
How used in the world around them	Software engineer/IT Project Manager/Network Engineer	Video Game designer/Digital Content Creator/YouTuber/Vlogger	Machine Learning Engineer/Robotics Engineer	Music maker/producer	Data scientist	Web developer
Important Computer Scientists	Charles Babbage - Invented the first mechanical/programmable computer	Steve Wozniak and Steve Jobs - Co-founders of Apple and first programmable universal remote	Ada Lovelace - The first computer programmer	Tim Berners-Lee - Inventor of the World Wide Web	Edgar F. Codd - invented the relational database - revolutionised the way in which data is stored and retrieved.	Grace Hopper - First to use the term 'de-bugging and developed COBOL, a programming language still used today
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