William Penn Curriculum Map – Computing

	Autumn	Spring	Summer
Year R	Fantastic Fairytales	Amazing Animals	Helpful Heroes
Year 1/2 Cycle A	Community Heroes	Shiver and Sizzle	Oh I do like to be beside
Year 1/2 Cycle B	Who Lives Here?	Spring Has Sprung	Back in Time for…
Year 3/4 Cycle A	Raging Rivers and Marvellous Mountains	The Roman Empire	Groovy Greeks
Year 3/4 Cycle B	Ancient Ancestors (Stone Age to Iron Age)	We're Sailing down the Nile (Ancient Egypt)	Our World
Year 5/6 Cycle A	We'll Meet Again (WWII links with Coolham airfield and Battle of Britain)	Rulers of the Rainforest (Ancient Mayan Civilization and rainforests)	Vikings (Life and Legend)
Year 5/6 Cycle B	Wonders of the Universe	Super Settlers (Anglo Saxons and Scots)	Friends And Heroes (Quakerism and Democracy) A local History Study

Cadbury- Year R Coverage:

Year R Cycle A	Fantastic Fairy tales	Awesome Animals	Helpful Heroes
Outcomes	Enviroments with ICT scenarios based on experience in the real world, such as in role- play. Using the interactive whiteboard to play games	Pupils to gain confidence, control and language skills through opportunities to 'paint' and write on the interactive board/iPad.	To use the keyboard to use their individual login to access Mini Mash, developing their fine motor skills. To utlise the program Mini Mash.
Early Learning Goals P of S	ELG: Speaking Children at the expected level of development will: - Participate in small group, class and one-to-one discussions, offering their own ideas, using recently introduced vocabulary; - Offer explanations for why things might happen, making use of recently introduced vocabulary from stories, non-fiction, rhymes and poems when appropriate; - Express their ideas and feelings about their experiences using full sentences, including use of past, present and future tenses and making use of conjunctions, with modelling and support from their teacher.	 ELG: Creating with Materials Children at the expected level of development will: Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function; Share their creations, explaining the process they have used; Make use of props and materials when role playing characters in narratives and stories. 	ELG: Fine Motor Skills Children at the expected level of development will: - Hold a pencil effectively in preparation for fluent writing – using the tripod grip in almost all cases; - Use a range of small tools, including scissors, paint brushes and cutlery

Fox- Year 1 and 2 Coverage:

Year 1/2 Cycle A	Community Heroes	Shiver and sizzle	Oh I do like to beside…
Outcomes	Unit 1.1 Online safety and exploring Purple Mash Unit 2.5 Effective searching Unit 1.4 Lego builders Unit 1.9 Technology outside school	Unit 1.2 Grouping and sorting Unit 2.6 Creating pictures Unit 1.8 Spreadsheets	Unit 1.7 Coding Unit 2.1 Coding
National Curriculum P of S	 Unit 1.1 use technology safely and 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 Unit 1.4 Understand what algorithms are Understand that programs execute by following precise and unambiguous instructions Unit 1.9 recognise common uses of information technology beyond school Unit 2.5 use technology purposefully to create, organise, store, manipulate and retrieve digital content Unit 2.5 recognise common uses of information technology beyond school 	 Unit 1.2 use technology purposefully to create, organise, store, manipulate and retrieve digital content Unit 1.8 use technology purposefully to create, organise, store, manipulate and retrieve digital content Unit 2.6 use technology purposefully to create, organise, store, manipulate and retrieve digital content Unit 2.6 use technology purposefully to create, organise, store, manipulate and retrieve digital content 	Unit 1.7 Understand what algorithms are Understand that programs execute by following precise and unambiguous instructions Unit 1.7 create and debug simple programs Unit 1.7 use logical reasoning to predict the behaviour of simple programs Unit 1.7 use technology purposefully to create, organise, store, manipulate and retrieve digital content Unit 2.1 understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions Unit 2.1 create and debug simple programs Unit 2.1 use logical reasoning to predict the behaviour of simple programs
Year 1/2 Cycle B	Who lives here?	Spring Has Sprung	Back in Time for
Outcomes	Unit 1.1 Online safety and exploring Purple Mash Unit 1.5 Maze Explorers Unit 2.4 Questioning	Unit 2.2 Online Safety Unit 1.6 Animated Story books Unit 2.7 Making Music	Unit 2.3 Spreadsheets Unit 1.3 Pictograms Unit 2.8 Presenting ideas
National Curriculum P of S	Unit 1.5 Understand what algorithms are Understand that programs execute by following precise and unambiguous instructions Unit 1.5 create and debug simple programs Unit 1.5 use logical reasoning to predict the behaviour of simple programs Unit 2.4 use technology purposefully to create, organise, store, manipulate and retrieve digital content	Unit 2.2 use technology safely and 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 Unit 1.6 use technology purposefully to create, organise, store, manipulate and retrieve digital content Unit 2.7 use technology purposefully to create, organise, store, manipulate and retrieve digital content	 Unit 1.3 use technology purposefully to create, organise, store, manipulate and retrieve digital content Unit 2.3 use technology purposefully to create, organise, store, manipulate and retrieve digital content Unit 2.8 use technology purposefully to create, organise, store, manipulate and retrieve digital content

Fry-Year 3 and 4 Coverage:

Year 3/4 Cycle A	Raging Rivers and Marvellous Mountains	The Roman Empire	Groovy Greeks
Outcomes	Unit 3.1 Coding Unit 3.2 Online safety Unit 3.3 Spreadsheets	Unit 3.4 Touch typing Unit 3.5 Email	Unit 3.6 Branching databases Unit 3.7 Simulations Unit 3.8 Graphing
National Curriculum P of S	Unit 3.1 design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts Unit 3.1 use sequence, selection, and repetition in programs; work with variables and various forms of input and output Unit 3.1 use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs Unit 3.2 use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.	Unit 3.5 understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration Unit 3.4 and 3.5 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 Unit 3.5 use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.	Unit 3.6, 3.7 and 3.8 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
Year 3/4 Cycle B	Ancient Ancestors	We're Sailing Down the Nile	Our World
Outcomes	Unit 4.1 Coding Unit 4.2 Online safety	Unit 4.3 Spreadsheets Unit 4.4 Writing for different audiences	Unit 4.5 Logo Unit 4.6 Animation Unit 4.7 Effectives search Unit 4.8 Hardware investigates
National Curriculum P of S	Unit 4.1 design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts Unit 4.1 use sequence, selection, and repetition in programs; work with variables and various forms of input and output Unit 4.1 use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs Unit 4.1 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 Unit 4.2 understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration Unit 4.2 use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.	Unit 4.3 and 4.4 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	Unit 4.5 design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts Unit 4.5 use sequence, selection, and repetition in programs; work with variables and various forms of input and output Unit 4.5 use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs Unit 4.6 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 Unit 4.7 understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration Unit 4.7 use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content Unit 4.8 understand computer networks including the internet;
		4	how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration

JBB- Year 5 and 6 Coverage:

Year 5/6 Cycle A	We'll Meet Again	Rulers of the Rainforest	Vikings
Outcomes	Unit 5.1 Coding Unit 5.2 Online safety	Unit 5.3 Spreadsheets Unit 5.4 Databases	Unit 5.5 Game Creator Unit 5.6 3D Modelling Unit 5.7 Concept Maps
National Curriculum P of S	Unit 5.1 design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts Unit 5.1 use sequence, selection, and repetition in programs; work with variables and various forms of input and output Unit 5.1 use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs Unit 5.2 understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration Unit 5.1 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 Unit 5.2 use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.	Unit 5.3 and 5.4 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	Unit 5.5 design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts Unit 5.5, 5.6 and 5.7 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
Year 5/6 Cycle B	Wonders of the Universe	Super Settlers	Friends and Heroes
Outcomes	Unit 6.1 Coding Unit 6.2 Online Safety	Unit 6.3 Spreadsheets Unit 6.4 Blogging	Unit 6.5 Text Adventures Unit 6.6 Networks Unit 6.7 Quizzing
National Curriculum P of S	Unit 6.1 design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts Unit 6.1 use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs Unit 6.1 use sequence, selection, and repetition in programs; work with variables and various forms of input and output Unit 6.2 understand computer networks including the internet; how they can provide multiple services, such as the world	Unit 6.4 understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration Unit 6.3 and 6.4 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 Unit 6.4 use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a	 Unit 6.5 design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts Unit 6.5 use sequence, selection, and repetition in programs; work with variables and various forms of input and output Unit 6.5 use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs Unit 6.6 understand computer networks including the internet; how they can provide multiple services, such as the world

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wide web; and the opportunities they offer for communication and collaboration Unit 6.2 use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content Unit 6.1 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 Unit 6.2 use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.	range of ways to report concerns about content and contact.	wide web; and the opportunities they offer for communication and collaboration Unit 6.5 and 6.7 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
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William Penn Computing Skills Progression 2023 Key Stage 1 and 2

Key: Colour coding

Computer science statement Information technology statement Digital literacy statement

	Key Stage 1
Computing P of S	Split statements
understand what algorithms are; how they are	Understand what algorithms are
implemented as programs on digital devices; and that programs execute by following	Understand that algorithms are implemented as programs on digital devices
precise and unambiguous instructions	Understand that programs execute by following precise and unambiguous instructions
create and debug simple programs	Create simple programs
	Debug simple programs
use logical reasoning to predict the behaviour	Use logical reasoning to predict the behaviour of own program
of simple programs	Use logical reasoning to predict the behaviour of others' programs
use technology purposefully to create, organise, store, manipulate and retrieve digital	Use technology purposefully to create digital content
content	Use technology purposefully to store digital content
	Use technology purposefully to retrieve digital content
	Use technology purposefully to organise digital content
	Use technology purposefully to manipulate digital content
recognise common uses of information	Recognise common uses of information technology at home
technology beyond school	Recognise common uses of information technology at work
	Recognise common uses of information technology outdoors
use technology safely and respectfully,	Use technology safely
keeping personal information private; identify where to go for help and support when they	Keep personal information private
have concerns about content or contact on the	Use technology respectfully
internet or other online technologies	Identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies

MARANA MARANA

Key: Colour coding

Computer science statement Information technology statement Digital literacy statement

specific goals, including controlling or simulating	Split statements rite programs that accomplish specific goals esign programs that accomplish specific goals
specific goals, including controlling or simulating	
	point programs that accomplish apositic goals
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	ebug programs that accomplish specific goals
Со	ontrol or simulate physical systems
Sol	olve problems by decomposing them into smaller parts
	se sequence in programs
programs; work with variables and various forms of Use	se selection in programs
input and output Use	se repetition in programs
Wa	ork with variables
Wo	ork with various forms of input and output
	se logical reasoning to detect and correct errors in programs
algorithms work and to detect and correct errors in Use	se logical reasoning to explain how some simple algorithms work
algorithms and programs Use	se logical reasoning to detect and correct errors in algorithms
	nderstand how computer networks can provide multiple services, such as the world wide web
internet; how they can provide multiple services, such as the world wide web; and the opportunities	nderstand computer networks, including the internet
they offer for communication and collaboration	nderstand the opportunities computer networks offer for communication
Und	nderstand the opportunities computer networks offer for collaboration
	se search technologies effectively
results are selected and ranked, and be discerning Apr	preciate how search results are selected
in evaluating digital content Apr	opreciate how search results are ranked
Be	e discerning in evaluating digital content
	elect, use and combine software
(including internet services) on a range of digital devices to design and create a range of programs,	esign and create content
systems and content that accomplish given goals,	esign and create systems
including collecting, analysing, evaluating and Col	ollect, analyse, evaluate and present data
	ollect, analyse, evaluate and present information
use technology safely, respectfully and responsibly; Use	se technology responsibly
recognise acceptable/unacceptable behaviour; Ide	entify a range of ways to report concerns about contact
identify a range of ways to report concerns about Reconcerns about Reconce	ecognise acceptable/unacceptable behaviour

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