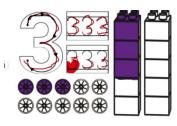




## **Computing Overview**



Twiss Green COMPUTING SUBJECT OVERVIEW

This document shows the Early Learning Goals and National Curriculum coverage for Computing. It highlights which aspect of the National Curriculum is to be planned for. At Twiss Green we follow the Purple Mash Scheme- which has been tailored to the schools needs and timetable requirements. The three main areas are- Computer Science, Information Technology and Digital Literacy (Online Safety)

This is the starting point for the planning of a sequence learning in each area. The placement of each objective has been carefully planned to allow for clear progression of knowledge, skills, techniques. A structure of MAIN, SUPPORTING and REVISITING units have been included to ensure that key skills are regularly revisited.

Grantien 1 How old are you?	Question Type Multiple Choice Choose multiple answers from a selection of choices	Question 1 How old are you?	
How many people live in your home?	Choice One answer from a selection of choices	Choices	Include images
Cy Question 3	Star Rating Heasure opinion with a rating scale	Enter an answer choice	E AND
C Question 4	T Test Entry Collect answers as text entry	3	1
How many bedrooms are there for the	Background	4	1
Question 5 How many cars	Add Image	5	1
or varis are owned by		6	1
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This document should be used alongside the individual Subject Knowledge Progression Map. Here the links to previous knowledge, specific knowledge, skills, vocabulary and any links to planning resources are highlighted. Finally, teachers should refer to the Purple Mash planning document for lesson ideas.

This is not a working document and should not be changed or altered without discussion with the Computing Lead.

## Abbreviations

ELG	EYFS Early Learning Goals
NC	National Curriculum
Main	The main focus of the terms teaching- introducing new and building on current skills and knowledge: this unit must be taught.
Supporting	Complimentary unit to further develop learning from the Main unit- if time allows the unit can be covered to give more practice of skills taught
Revisiting	Aspects of these units should be taught as a way of revisiting previous learning





	AUT		SPR		SUM	
	Exploring Mini Mash using all the tools	Exploring Mini Mash using all the tools	Make your own rhythm	Pictograms	Monkey Puzzle Story	Robots! (Physical) remote control cars & Beebots
EYFS	Online Safety All about me Mashcams Self Portrait	Cold as Ice 2Paint	Imagine & Invent 2Sequence Simple City videos	Food Glorious Food 2Graph	Living Things 2Create Story	Journeys 2Code
	Simple City videos	Simple City videos	Simple city videos	Simple City videos	Simple City videos	Simple City videos
			ONLINE SAFETY WILL BE REVISI	TED AT THE START OF EVERY U	NIT	
	Main Online Safety- Unit 1.1		Main Coding- Unit 1.7		Main Pictograms- Unit 1.3	
	NC- Use technology safely personal information priva help and support when the content or contact on the i technologies.	te; identify where to go for ey have concerns about	NC- Understand what algorith implemented as programs on programs execute by followin instructions. NC- Create and debug simple	n digital devices; and that ng precise and unambiguous	NC- Use technology purposef manipulate and retrieve digit	ully to create, organise, store, al content
	Technology outside school- Unit 1.9		NC- Use logical reasoning to p simple programs.	predict the behaviour of		
	NC- Recognise common us beyond school	es of information technology	NC- Use technology purposef manipulate and retrieve digit	ully to create, organise, store, al content		
YEAR 1			Supporting Maze Explorers- Unit 1.5		Supporting Spreadsheets- Unit 1.8	
			NC- Understand what algorith implemented as programs on programs execute by followin instructions.	digital devices; and that	NC- Use technology purposef manipulate and retrieve digit	ully to create, organise, store, al content
			NC- Create and debug simple	programs		
			NC- Use logical reasoning to p simple programs	predict the behaviour of		



	ONLINE SAFETY WILL BE REVISITED AT THE START OF EVERY UNIT				
			Main		
	Online Safety- Unit 2.2	Coding Unit 1.7	Spreadsheets- Unit 2.3		
	N.C- Use technology safely and respectfully, keeping		NC- Use technology purposefully to create, organise, store,		
	personal information private; identify where to go for		manipulate and retrieve digital content		
	help and support when they have concerns about	Main			
	content or contact on the internet or other online	Coding- Unit 2.1			
	technologies.	Ŭ			
	, i i i i i i i i i i i i i i i i i i i	NC- Understand what algorithms are; how they are			
	Effective Searching- Unit 2.5	implemented as programs on digital devices; and that			
		programs execute by following precise and unambiguous			
	NC- Use technology purposefully to create, organise,	instructions.	Supporting		
	store, manipulate and retrieve digital content		Creating Pictures- Unit 2.6		
		NC- Create and debug simple programs			
	NC- Recognise common uses of information technology		NC- Use technology purposefully to create, organise, store,		
	beyond school	NC- Use logical reasoning to predict the behaviour of	manipulate and retrieve digital content		
		simple programs.			
YEAR 2					



	ONLINE SAFETY WILL BE REVISITED AT THE START OF EVERY UNIT			
	Main	Main	Revisit	
	Online Safety- Unit 3.2	Branching Databases- Unit 3.6	Coding- Unit 2.1	
	NC- Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.	NC- 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.	NC- Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.	
	Email- Unit 3.5		NC- Create and debug simple programs	
	NC- 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. NC- Select, use and combine a variety of software (including internet services) on a range of digital devices		NC- Use logical reasoning to predict the behaviour of simple programs. <i>Main</i> Coding- Unit 3.1 NC- Design, write and debug programs that accomplish	
	to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.		specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts. NC- Use sequence, selection and repetition in programs; work with variables and various forms of input and output.	
YEAR 3			NC- Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs	
		Supporting Spreadsheets- Unit 3.3 NC- 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.		



	ONLINE SAFETY WILL BE REVISITED AT THE START OF EVERY UN	NIT
Main	Main	Revisit
 Online Safety- Unit 4.2	Effective Searching- Unit 4.7	Coding- Unit 3.1
NC- 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. NC- Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact. <b>Animation- Unit 4. 6</b> NC- 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.	NC- Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.         NC- 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.         Supporting         Making Music- Unit 4.9         NC- 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.	Main Coding- Unit 4.1 NC- Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts. NC- Use sequence, selection and repetition in programs; work with variables and various forms of input and output. NC- Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs NC- 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.



	ONLINE SAFETY WILL BE REVISITED AT THE START OF EVERY UNIT				
	Main Online Safety- Unit 5.2	Revisit Coding- Unit 4.1	Main 3-D Modelling- Unit 5.6		
	<ul> <li>NC- 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</li> <li>NC- Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</li> </ul>	MainCoding- Unit 5.1NC- Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.NC- Use sequence, selection and repetition in programs; work with variables and various forms of input and output.	NC- 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	Word or Google Doc Processing- Unit 5.8 NC- 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.	<ul> <li>NC- Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</li> <li>NC- 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.</li> </ul>			
			Revision Databases- Unit 5.4 NC- 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.		



	ONLINE SAFETY WILL BE REVISITED AT THE START OF EVERY UNIT			
	Main	Revisit	Main	
	Online Safety- Unit 6.2	Coding- Unit 5.1	Networks- Unit 6.6	
YEAR 6				