

LP 2022-2023	Fs2	Y1	Y2	Y3	Y4	Y5	Y6
Computing		Technology around us	IT around us	<u>Connecting</u>	The Internet	Systems and	Communication and
systems and		<ul> <li>To identify</li> </ul>	• To recognise the uses	<u>Computers</u>	<ul> <li>To describe how</li> </ul>	searching	<u>collaboration</u>
networks		technology	and features of	<ul> <li>To explain how digital</li> </ul>	networks physically	<ul> <li>To explain that</li> </ul>	<ul> <li>To explain the</li> </ul>
HELWOIKS		<ul> <li>To identify a</li> </ul>	information	devices function	connect to other	computers can be	importance of
		computer and its	technology	<ul> <li>To identify input and</li> </ul>	networks	connected together	internet addresses
(IT)		main parts	<ul> <li>To identify the uses</li> </ul>	output devices	<ul> <li>To recognise how</li> </ul>	to form systems	<ul> <li>To recognise how</li> </ul>
		<ul> <li>To use a mouse in</li> </ul>	of information	<ul> <li>To recognise how</li> </ul>	networked devices	<ul> <li>To recognise the role</li> </ul>	data is transferred
		different ways	technology in the	digital devices can	make up the internet	of computer systems	across the internet
		<ul> <li>To use a keyboard</li> </ul>	school	change the way we	<ul> <li>To outline how</li> </ul>	in our lives	<ul> <li>To explain how</li> </ul>
		to type on a	<ul> <li>To identify</li> </ul>	work	websites can be	<ul> <li>To experiment with</li> </ul>	sharing information
		computer	information	<ul> <li>To explain how a</li> </ul>	shared via the World	search engines	online can help
		<ul> <li>To use the</li> </ul>	technology beyond	computer network	Wide Web (WWW)	<ul> <li>To describe how</li> </ul>	people to work
		keyboard to edit	school	can be used to share	<ul> <li>To describe how</li> </ul>	search engines select	together
		text	<ul> <li>To explain how</li> </ul>	information	content can be added	results	<ul> <li>To evaluate different</li> </ul>
		<ul> <li>To create rules for</li> </ul>	information	<ul> <li>To explore how</li> </ul>		<ul> <li>To explain how</li> </ul>	ways of working
		using technology	technology helps us	digital devices can be	World Wide Web	search results are	together online
		responsibly	• To explain how to use	connected	(WWW)	ranked	<ul> <li>To recognise how we</li> </ul>
			information	<ul> <li>To recognise the</li> </ul>	<ul> <li>To recognise how the</li> </ul>	<ul> <li>To recognise why the</li> </ul>	communicate using
			technology safely	physical components	content of the WWW	order of results is	technology
			<ul> <li>To recognise that</li> </ul>	of a network	is created by people	important, and to	<ul> <li>To evaluate different</li> </ul>
			choices are made		<ul> <li>To evaluate the</li> </ul>	whom	methods of online
			when using		consequences of		communication
			information		unreliable content		
			technology				
Creating		Digital Painting	Digital Photography	Stop-frame animation	Audio Production	Video production	Web page creation
Media		<ul> <li>To identify</li> </ul>	<ul> <li>To use a digital</li> </ul>	<ul> <li>To explain that</li> </ul>	<ul> <li>To identify that</li> </ul>	<ul> <li>To explain what</li> </ul>	<ul> <li>To review an</li> </ul>
		technology	device to take a	animation is a	sound can be	makes a video	existing website and
(Digital		<ul> <li>To identify a</li> </ul>	photograph	sequence of	recorded	effective	consider its
		computer and its	<ul> <li>To make choices</li> </ul>	drawings or	<ul> <li>To explain that</li> </ul>	<ul> <li>To identify digital</li> </ul>	structure
Literacy)		main parts	when taking a	photographs	audio recordings	devices that can	<ul> <li>To plan the features</li> </ul>
		<ul> <li>To use a mouse in</li> </ul>	photograph	<ul> <li>To relate animated</li> </ul>	can be edited	record video	of a web page
		different ways	• To describe what	movement with a	• To recognise the	To capture video	• To consider the
		<ul> <li>To use a keyboard</li> </ul>	makes a good	sequence of images	different parts of	using a range of	ownership and use
		to type on a	photograph	<ul> <li>To plan an</li> </ul>	creating a podcast	techniques	of images
		computer		animation	project	<ul> <li>To create a</li> </ul>	(copyright)
						storyboard	



# Mickle Trafford Village School

#### Computing Assessment Focus for Progression of Skills

	<ul> <li>To use the keyboard to edit text</li> <li>To create rules for using technology responsibly</li> </ul>	<ul> <li>To decide how photographs can be improved</li> <li>To use tools to change an image</li> <li>To recognise that photos can be changed</li> </ul>	<ul> <li>To identify the need to work consistently and carefully</li> <li>To review and improve an animation</li> <li>To evaluate the impact of adding other media to an animation</li> </ul>	<ul> <li>To apply audio editing skills independently</li> <li>To combine audio to enhance my podcast project</li> <li>To evaluate the effective use of audio</li> </ul>	<ul> <li>To identify that video can be improved through reshooting and editing</li> <li>To consider the impact of the choices made when making and sharing a video</li> </ul>	<ul> <li>To recognise the need to preview pages</li> <li>To outline the need for a navigation path</li> <li>To recognise the implications of linking to content owned by other people</li> </ul>
Programming A (Computer Science)	<ul> <li>given command will do</li> <li>To act out a given word</li> <li>To combine forwards and backwards commands to make a sequence</li> <li>To combine four direction commands to make sequences</li> <li>To plan a simple program</li> <li>To find more than one solution to a</li> </ul>	<ul> <li><u>Robot Algorithms</u></li> <li>To describe a series of instructions as a sequence</li> <li>To explain what happens when we change the order of instructions</li> <li>To use logical reasoning to predict the outcome of a program</li> <li>To explain that programming projects can have code and artwork</li> <li>To design an algorithm</li> <li>To create and debug a program that I have written</li> </ul>	<ul> <li><u>Sequencing sounds</u></li> <li>To explore a new programming environment</li> <li>To identify that commands have an outcome</li> <li>To explain that a program has a start</li> <li>To recognise that a sequence of commands can have an order</li> <li>To change the appearance of my project</li> <li>To create a project from a task description</li> </ul>	<ul> <li><u>Repetition in shapes</u></li> <li>To identify that accuracy in programming is important</li> <li>To create a program in a text- based language</li> <li>To explain what 'repeat' means</li> <li>To modify a count- controlled loop to produce a given outcome</li> <li>To decompose a task into small steps</li> <li>To create a program that uses count-controlled loops to produce a given outcome</li> </ul>	<ul> <li><u>Selection in physical</u> <u>computing</u></li> <li>To control a simple circuit connected to a computer</li> <li>To write a program that includes count- controlled loops</li> <li>To explain that a loop can stop when a condition is met</li> <li>To explain that a loop can be used to repeatedly check whether a condition has been met</li> <li>To design a physical project that includes selection</li> <li>To create a program that controls a physical computing project</li> </ul>	<ul> <li><u>Variables in games</u></li> <li>To define a 'variable' as something that is changeable</li> <li>To explain why a variable is used in a program</li> <li>To choose how to improve a game by using variables</li> <li>To design a project that builds on a given example</li> <li>To use my design to create a project</li> <li>To evaluate my project</li> </ul>



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Data	Grouping data	Pictograms	Branching databases	Data Logging	Flat-file databases	Spreadsheets
information	To label objects	<ul> <li>To recognise that</li> </ul>	To create questions	• To explain that data	<ul> <li>To use a form to</li> </ul>	• To create a data set
intornation	To identify that	we can count and	with yes/no	gathered over time	record information	in a spreadsheet
<i>(</i> )	objects can be	compare objects	answers	can be used to	• To compare paper	• To build a data set
(IT)	counted	using tally charts	<ul> <li>To identify the</li> </ul>	answer questions	and computer-based	in a spreadsheet
	• To describe objects	<ul> <li>To recognise that</li> </ul>	attributes needed	<ul> <li>To use a digital</li> </ul>	databases	• To explain that
	in different ways	objects can be	to collect data	device to collect	<ul> <li>To outline how you</li> </ul>	formulas can be
	• To count objects	represented as	about an object	data automatically	can answer	used to produce
	with the same	pictures	<ul> <li>To create a</li> </ul>	• To explain that a	questions by	calculated data
	properties	• To create a	branching database	data logger collects	grouping and then	<ul> <li>To apply formulas</li> </ul>
	To compare groups	pictogram	• To explain why it is	'data points' from	sorting data	to data
	of objects	• To select objects by	helpful for a	sensors over time	<ul> <li>To explain that tools</li> </ul>	To create a
	• To answer	attribute and make	database to be well	• To recognise how a	can be used to select	spreadsheet to plan
	questions about	comparisons	structured	computer can help	specific data	an event
	groups of objects	<ul> <li>To recognise that</li> </ul>	<ul> <li>To plan the</li> </ul>	us analyse data	<ul> <li>To explain that</li> </ul>	To choose suitable
		people can be	structure of a	• To identify the data	computer programs	ways to present
		described by	branching database	needed to answer	can be used to	data
		attributes	<ul> <li>To independently</li> </ul>	questions	compare data	
		<ul> <li>To explain that we</li> </ul>	create an	<ul> <li>To use data from</li> </ul>	visually	
		can present	identification tool	sensors to answer	<ul> <li>To use a real-world</li> </ul>	
		information using a		questions	database to answer	
		computer			questions	
Creating	Digital writing	Digital Music	Desktop publishing	Photo Editing	Introduction to vector	<u>3D modelling</u>
media	<ul> <li>To use a computer</li> </ul>	<ul> <li>To say how music</li> </ul>	<ul> <li>To recognise how</li> </ul>	• To explain that the	graphics	<ul> <li>To recognise that</li> </ul>
	to write	can make us feel	text and images	composition of	<ul> <li>To identify that</li> </ul>	you can work in
(Digital	<ul> <li>To add and remove</li> </ul>	<ul> <li>To identify that</li> </ul>	convey information	digital images can	drawing tools can	three dimensions on
	text on a computer	there are patterns	<ul> <li>To recognise that</li> </ul>	be changed	be used to produce	a computer
Literacy)	<ul> <li>To identify that the</li> </ul>	in music	text and layout can	<ul> <li>To explain that</li> </ul>	different outcomes	<ul> <li>To identify that</li> </ul>
	look of text can be	<ul> <li>To experiment with</li> </ul>	be edited	colours can be	• To create a vector	digital 3D objects
	changed on a	sound using a	<ul> <li>To choose</li> </ul>	changed in digital	drawing by	can be modified
	computer	computer	appropriate page	images	combining shapes	<ul> <li>To recognise that</li> </ul>
	<ul> <li>To make careful</li> </ul>	• To use a computer	settings	• To explain how	• To use tools to	objects can be
	choices when	to create a musical	• To add content to a	cloning can be used	achieve a desired	combined in a 3D
	changing text	pattern	desktop publishing	in photo editing	effect	model
	• To explain why I	<ul> <li>To create music for</li> </ul>	publication	• To explain that	• To recognise that	• To create a 3D
	used the tools that I	a purpose	• To consider how	images can be	vector drawings	model for a given
	chose	• To review and refine	different layouts	combined	consist of layers	purpose
		our computer work	can suit different	• To combine images		• To plan my own 3D
			purposes	for a purpose		model



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	• To compare typing on a computer to writing on paper		<ul> <li>To consider the benefits of desktop publishing</li> </ul>	<ul> <li>To evaluate how changes can improve an image</li> </ul>	<ul> <li>To group objects to make them easier to work with</li> <li>To apply what I have learned about vector drawings</li> </ul>	<ul> <li>To create my own digital 3D model</li> </ul>
Programming	Programming	Programming Quizzes	Events and actions in	Repetition in Games	Selection in quizzes	Sensing movement
В	<ul> <li><u>animations</u></li> <li>To choose a command for a</li> </ul>	<ul> <li>To explain that a sequence of commands has a</li> </ul>	<ul> <li>programs</li> <li>To explain how a sprite moves in an</li> </ul>	<ul> <li>To develop the use of count-controlled loops in a different</li> </ul>	<ul> <li>To explain how selection is used in computer programs</li> </ul>	<ul> <li>To create a program to run on a controllable device</li> </ul>
(Computer	given purpose	start	existing project	programming	• To relate that a	<ul> <li>To explain that</li> </ul>
Science)	<ul> <li>To show that a series of commands can be joined together</li> </ul>	<ul> <li>To explain that a sequence of commands has an outcome</li> </ul>	<ul> <li>To create a program to move a sprite in four directions</li> <li>To adapt a program</li> </ul>	<ul> <li>environment</li> <li>To explain that in programming there are infinite loops</li> </ul>	conditional statement connects a condition to an outcome	selection can control the flow of a program • To update a variable
	<ul> <li>To identify the effect of changing a value</li> <li>To explain that each sprite has its own</li> </ul>	<ul> <li>To create a program using a given design</li> <li>To change a given design</li> </ul>	<ul> <li>to a new context</li> <li>To develop my program by adding features</li> </ul>	<ul><li>and count controlled loops</li><li>To develop a design that includes two or</li></ul>	<ul> <li>To explain how selection directs the flow of a program</li> <li>To design a program</li> </ul>	<ul> <li>with a user input</li> <li>To use a conditional statement to compare a variable</li> </ul>
	<ul> <li>instructions</li> <li>To design the parts of a project</li> <li>To use my algorithm</li> </ul>	<ul> <li>To create a program using my own design</li> <li>To decide how my project can be</li> </ul>	<ul> <li>To identify and fix bugs in a program</li> <li>To design and create a maze-based</li> </ul>	<ul><li>more loops which</li><li>run at the same</li><li>time</li><li>To modify an infinite</li></ul>	<ul> <li>which uses selection</li> <li>To create a program which uses selection</li> <li>To evaluate my</li> </ul>	<ul> <li>to a value</li> <li>To design a project that uses inputs and outputs on a</li> </ul>
	to create a program	improved	challenge	loop in a given program	program	controllable device • To develop a
				<ul> <li>To design a project that includes repetition</li> </ul>		program to use inputs and outputs on a controllable
				<ul> <li>To create a project that includes repetition</li> </ul>		device