	Computing		
Year 3/4			
	Term 1.1		
	Computing systems and networks 1: Networks and the	internet	
Vocab	Knowledge	Outcomes	
Cables	To understand what a network is and how a	Recognise that a network is two or more devices	
Component	school network might be organised.	connected.	
Connection		Explain how information moves around a	
Corrupted	To know that a server is central to a network and	network and the role of the server.	
Data	responds to requests made.	Understand that networks connect to the	
Desktop		internet via a router.	
Device	To know that a router connects us to the	Explain some of the journey a website goes	
DSL	internet.	through to reach your computer.	
Fibre		Explain that websites are split into small pieces	
File	To know how the internet uses networks to	(packets) to be sent via the internet.	
Internet	share files.		
Laptop			
Network	To know what a packet is and why it is important		
Network map	for website data transfer.		
Network switch			
Packets			
Radio waves			
Router			
Server			
Submarine cables			
Tablet			
Text map			
The Cloud			
Web server			
Website			
Website trackers			
WiFi			

Wired		
Wireless		
Wireless Access Points		
World Wide Web		
	Term 1.2	
	Computing systems and networks 2: Emailing	
Vocab	Knowledge	Outcomes
Attachment	To understand that email stands for 'electronic	Log in and out of email.
Bcc (Blind carbon copy)	mail.'	Send a simple email with a subject plus 'To' and
Cc (Carbon copy)		'From' in the body of the text.
Compose	To know that an attachment is an extra file	Edit an email.
Content	added to an email.	Type in the email address correctly and send the
Cyberbullying		email.
Document	To understand that emails should contain	Add an attachment to an email.
Domain	appropriate and respectful content.	Write an email using positive language, with an
Download		awareness of how it will make the recipient feel.
Email	To know that cyberbullying is bullying using	Recognise unkind behaviour online and know
Email account	electronics such as a computer or phone.	how to report it.
Email address		Offer advice to victims of cyberbullying.
Emoji		Recognise when an email may be fake and
Emotions		explain how they know.
Fake		
Font		
Genuine		
Hacker		
lcons		
Inbox		
Information		
Link		
Log in		
Log out		
Negative language		

Password		
Personal information		
Positive language		
Reply		
Responsible digital citizen		
Scammer		
Settings		
Send		
Sign in		
Spam email		
Subject bar		
Theme		
Tone		
Username		
Virus		
WiFi		
	Term 2.1	
Comput	ing systems and networks 3: Journey inside a c	omputer
Vocab	Knowledge	Outcomes
Algorithm	To know the roles that inputs and outputs play	Recognise inputs and outputs and that the
Assemble	on computers.	computer sends and receives information.
CPU (central processing unit)	To know what some of the different components	Explain that the parts of a laptop work together
Data	inside a computer are e.g. CPU, RAM, hard drive,	and the purpose of each part.
Decompose	and how they work together.	Explain what an algorithm is.
Desktop	To know what a tablet is and how it is different	Suggest what memory is for inside a computer.
Disassemble	from a laptop/desktop computer.	Make comparisons between different types of
GPU (graphics processing unit)		computer.
Hard drive		
HDD (hard disk drive)		
Infinite loop		
Input		
Keyboard		

Laptop		
Memory		
Microphone		
Monitor		
Mouse		
Output		
Photocopier		
Program		
QR Code		
RAM (random access memory)		
ROM (read only memory)		
Storage		
Tablet device		
Technology		
Touchscreen		
Touchpad		
	Term 2.2	
	Programming: Scratch	
Key Vocabulary	Knowledge	Outcomes
Algorithm	To know that Scratch is a programming language	Explain what some of the blocks do in Scratch.
Animation	and some of its basic functions.	Explain what a loop is and include one in their
Application	To understand how to use loops to improve	program.
Code	programming.	Suggest possible additions to an existing
Code block	To understand how decomposition is used in	program.
Coding application	programming.	Recognise where something on screen is
Debug	To understand that you can remix and adapt	controlled by code.
Decompose	existing code.	Use a systematic approach to find bugs.
Interface		Explain what an algorithm is and its purpose.
Game		
Loop		
Predict		
Program		

Remixing code		
Repetition code		
Review		
Scratch		
Sprite		
Tinker		
	Term 3.1	
	Creating Media: Video Trailers	
Vocabulary	Knowledge	Outcomes
Application	To know that different types of camera shots can	Describe the purpose of a trailer.
Camera angle	make my photos or videos look more effective.	Create a storyboard for a book trailer.
Clip	To know that I can edit photos and videos using	Consider camera angles when taking photos or
Cross blur	film editing software.	videos.
Cross fade	To understand that I can add transitions and text	Import videos and photos into film editing
Cross zoom	to my video.	software.
Desktop		Record sounds and add these to a video.
Digital device		Add text to a video.
Dip to black		Incorporate transitions between images.
Directional wipe		Evaluate their own and others' trailers.
Edit		
Film		
Film editing software		
Graphics		
Import		
Key events		
Laptop		
Music		
Photo		
Plan		
Recording		
Sound effects		
Storyboard		

Time code Trailer Transition Video Voiceover			
	Term 3.2		
Data Handling: Comparison Cards database			
Vocabulary	Knowledge	Outcomes	
Categorise Category Chart Data Database Excel Fields Filter Graph Information Interpret PDF Questionnaire Record Representation Sort Spreadsheet	To know that a database is a collection of data stored in a logical, structured and orderly manner. To know that computer databases can be useful for sorting and filtering data. To know that different visual representations of data can be made on a computer.	Explain what is meant by 'field,' 'record,' and 'data.' Compare paper and computerised databases. Put values into a spreadsheet. Sort, filter and interpret data in a spreadsheet. Create a graph on Google Sheets. Explain the purpose of visual representations of data.	