WAT Computing Substantive and Disciplinary Knowledge

National Curriculum Coverage

Year/Theme	Online Safety	Presentation	Artificial Intelligence	Coding	Robotics	Networks and Data
KS1	Use technology safely and	Use technology purposefully	Use logical reasoning to	Understand what algorithms are;	how they are implemented as	Recognise common uses of
	respectfully, keeping personal	to create, organise, store,	predict the behaviour of	programs on digital devices; and	that programs execute by	information technology
	information private. Identify	manipulate and retrieve digital	simple programs.	following precise and unambiguo	us instructions.	beyond school.
	where to go for help and	content.				
	support when they have			Create and debug simple program	ns.	
	concerns about content or					
	contact on the internet or					
	other online technologies.					
KS2	Use technology safely,	Select, use and combine a	Use search technologies	Design, write and debug program	ns that accomplish specific	Understand computer
	respectfully and responsibly;	variety of software (including	effectively, appreciate how	goals, including controlling or sim	nulating physical systems;	networks including the
	recognise	internet services) on a arrange	results are selected and	solve problems by decomposing	them into smaller parts.	internet; how they can provide
	acceptable/unacceptable	of digital devices to design	ranked, and be discerning in			multiple services, such as the
	behaviour; identify a range of	and create a range of	evaluating digital content.	Us sequence, selection, and repet	ition in programs; work with	world wide web; and the
	ways to report concerns about	programs, systems and		variables and various forms of inp	out and output.	opportunities they offer for
	content and contact.	content that accomplish given				communication and
		goals, including collecting,		Use logical reasoning to explain h	ow some simple algorithms	collaboration.
		analysing, evaluating and		work and detect and correct error	rs in algorithms and programs.	
		presenting data and				
		information.				

Thematic Model – Years 1 - 6

Year/Theme	Online Safety	Presentation	Artificial Intelligence	Coding	Robotics	Networks and Data
1	Myself online	Camera and Keynote	AI Introduction	Unplugged Coding	Bee-Bot	Networks and Data Basics
2	Safe sites and passwords	Creating a document	AI research	Introduction to Coding	Code & Go Mouse	Introduction to Digital Networks
3	PII	iMovie and Green Screen	AI assistant	Swift Playgrounds 1	Osmo	Building Networks Knowledge
4	Scamming and phishing	Designing a presentation and App Mock Up	Text to image	Swift Playgrounds 2	Sphero	Deepening Networks and Data Understanding
5	Social Media	Spreadsheets and functions	AI in Conversation	HTML Functions	Micro:bit	Advanced Networks and Data Concepts
6	Fake News	Building a website	Coding Scripts	HTML Advanced	Micro:bit 2	Mastering Networks and Data



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Area/Theme	Online Safety	Presentation	Artificial Intelligence	Coding	Robotics
Literacy	Use storybooks/interactive e- books to teach children about online safety. Discuss the importance of not sharing personal information online.	Encourage children to create simple digital storybooks or presentations using apps like Book Creator, where they can draw pictures, type text, and	Have children ask questions to a voice assistant (like Siri) and see how it responds. Discuss how the AI understands and answers their questions.	Re-tell stories by ordering digital images into the correct sequence.	
Maths	Use educational apps that incorporate online safety tips as part of the game or activity, reinforcing safe online behaviour.	record their voices to tell a story. Use interactive apps to create and present simple math problems and solutions. Children can practice counting, adding, and subtracting using digital tools.	Introduce simple AI-powered maths games that adapt to the child's skill level, providing personalised learning experiences. (1Minute Maths)	Use apps like Busy Things that offer math-based coding activities where children can sequence commands to solve problems or create patterns.	
C & L	Role-play scenarios using puppets or toys to teach children about safe and respectful online communication.	Use apps like Puppet Pals to create and present digital puppet shows, enhancing storytelling and language skills.	Have children interact with language learning apps that use AI to provide instant feedback on pronunciation and vocabulary.	Use voice-activated toys that require children to give verbal instructions, helping them understand the basics of giving commands and following sequences.	
PSED	Use age-appropriate videos and discussion activities to teach children about the importance of being kind and respectful online.	Encourage children to create digital posters about themselves, their families, and their interests using simple presentation apps.	Use AI-powered emotion recognition apps that help children identify and express their feelings, fostering emotional intelligence.		Use programmable r Bee-Bots) to work or and cooperation, wh take turns programm robot to complete ta
PD	Teach children the importance of taking breaks from screen time and encourage physical activities alongside digital learning.	Use motion-based apps that combine physical activity with learning, such as apps that require children to move and interact with the screen.			Use remote control of wind-up toys to deve motor skills and han coordination. Childre obstacle courses and toys through them.
EAD	Use digital art apps to create posters or artwork about online safety messages.	Encourage children to create digital portfolios of their artwork using presentation tools. They can take photos of their physical creations and add digital elements.	Use AI art apps that allow children to create artwork with the help of AI, exploring how technology can enhance creativity.	Use apps that combine coding with music creation, allowing children to compose simple tunes by sequencing commands.	Explore colours using interact based on ch such as Sphero Indie
UtW	Use interactive story apps that incorporate online safety themes, helping children understand the digital world.	Use apps like Google Earth to explore different parts of the world and create digital presentations about different cultures and places.	Introduce simple AI applications that help children learn about weather patterns, animals, or other scientific concepts.		

EYFS Introduction to Themes Through the Curriculum



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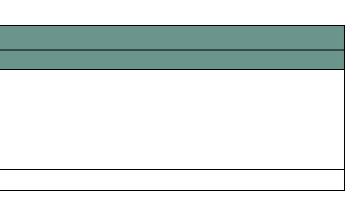
	Networks and Data
ble robots (like k on teamwork where children amming the re tasks.	
rol cars and develop fine hand-eye ildren can create and guide the m.	
ising robots that a chosen colour adie Cars.	
	Use simple explanations and interactive activities to show how devices connect and communicate, such as showing how an iPad connects to the internet to find information.

Substantive and Disciplinary Knowledge Progression by Theme – Years 1 - 6

	Online Safety			
Year	Unit			
1	Myself online	 Know devices that use the internet. Know the logos and interfaces of different browsers. Understand the importance of using a child friendly safe browser. Know what the internet can be used for and some dos and don'ts. Understand the importance of being supervised by an adult when online. Know what to do if they see something they don't like on the internet. 		
2	Safe sites and passwords	 Understand why they should not share passwords. Understand what makes a safe website and about clicking on suspicious links. Know not to share personal information. Understand about permissions for sharing photos and information. Know some information on the internet is not true, and that some people are not real. 		
3	PII	 Understand what constitutes PII. Know what geotagging is. Understand ways in which people try to obtain PII. Identify genuine and false reasons for sharing PII. Know how to accept and editing privacy settings on websites. 		
4	Scamming and phishing	 Understand the terms phishing and scamming. Know the term cyber security and be able to define it. Identify ways to spot fake emails and links. Know how to prevent common cyber threats. Know actions to take if they believe they are being scammed. 		
5	Social Media	 Know about current popular social media sites. Identify positive uses of social media. Identify negative uses of social media. Understand the importance of their digital footprint. Know the age limits and laws surrounding social media. Understand about privacy settings and reporting. 		
6	Fake News	 Understand why people may generate false information online. Know how to identify reliable sources and check accuracy of information. Know how to identify AI generated or manipulated content. 		

	Presentation		
Year	Unit		
1	Camera and Keynote	Know the basic features of the camera app.	
		Can use tools such as mark up to explore image editing.	
		Know how to save and delete photographs.	
		Demonstrate the basic features of Keynote.	
		Able to add images and texts to a presentation.	
2	Creating a document	Know that there are different uses of a word processor.	





		Navigate the basic features of a word processor.
		Know how to save and retrieve a document.
		Understand the purpose of collaborative documents.
		Create their own document.
3	iMovie and Green Screen	 Can use basic features and functions of iMovie and create a new project with a title and credits.
		Able to import and organize video clips, images, and audio into their iMovie project and use the timeline to
		 Know how to apply transitions, effects, filters, and animations to their iMovie project and adjust the volume,
		 Confident to set up and use a green screen and create some footage.
		 Demonstrate how to import their green screen footage into iMovie and use the chroma key feature to replace or video.
		• Export and share their iMovie project with their classmates and teacher and reflect on their learning process
4	Designing a presentation and App Mock Up	 Explain what a mock up is and why it is useful for app development and identify the main elements of an ap fields, etc.
		Can use Keynote to create a blank slide and add shapes, images, and text to their slide. Resize, rotate, and al
		Can use Keynote to create multiple slides and link them together with hyperlinks or buttons. Apply transition
		• Can use Keynote to create a mock-up of an app based on their own idea or a given theme. Test and refine the
		previewing it on an iPad.
		Can use Keynote to create a presentation that showcases their app mock up and explains its features, benefi
		principles such as contrast, alignment, repetition, and proximity to their presentation.
		 Know how to present their app mock up and presentation to their classmates and teacher and receive and g
		learning process and identify areas for improvement
5	Spreadsheets and functions	Identify the main components of the Numbers user interface such as the toolbar, the sidebar, the sheets, and
		spreadsheet and rename it.
		Able to enter text and numbers in table cells and format them using options such as font, size, colour, alignr
		cells and add or delete rows and columns.
		• Demonstrate the use basic functions such as sum, average, count, min, max, and if to perform calculations o
		paste formulas.
		Know how to select data to make a chart from a table. Can choose from different types of charts such as colu
		Customise their charts by changing the title, legend, labels, axes, gridlines, colours, and styles. Move and resi
		• Interpret their charts by identifying patterns, trends, outliers, and relationships in their data. Able to present
		and explain their findings.
6	Building a website	Explain what a website is and why it is important for promoting their school. Identify the main components of the school is the school of the school is the school of the school is the school of
		navigation bar, the content area, and the links.
		Can use Keynote to create a home page for their website. Add a title, a logo, a slogan, and a background im
		and text.
		Can use Keynote to create additional pages for their website. Add relevant information and images to their pages for the pages for th
		the facilities, the staff, the achievements, and the contact details.
		 Can use Keynote to create a navigation bar for their website. Add buttons and hyperlinks to their navigation
		 Can use Keynote to create a footer for their website. Add social media icons and links to their footer that cor
		Instagram accounts.
		 Export their website as an HTML file and upload their website to a free web hosting service such as Google S

	Artificial Intelligence		
Year	Unit		
1	AI Introduction	Know what AI is and identify some examples of AI in their daily life, such as voice assistants, face recognition,	
		Know how AI works and distinguish between different types of AI, such as supervised, unsupervised, and rein	



to edit and arrange their media. Ie, speed, and duration of their media.

lace the green background with a different image

ss and provide feedback to others. app interface such as buttons, icons, menus, text

align their objects on the slide. ons and animations to their slides and objects. their mock up by using the play mode or

efits, and target audience. Apply design

give feedback on their work. Evaluate areas of their

nd the tables. Create a new

nment, and borders. Resize, move, and merge

on table data. Use cell references and copy and

olumn, bar, line, pie, donut, and scatter. esize their charts and add or delete data series. In their charts to their classmates and teacher

s of a website such as the header, the footer, the

mage to their home page using shapes, images,

pages such as the school history, the curriculum,

on bar that link to their other pages. onnect to their school's Facebook, Twitter and

Sites.

on, or online games. einforcement learning.

2	AI research	 Identify some of the benefits and challenges of AI, such as how it can help solve problems, improve lives, or raise ethical, social, or environmental issues. Understand how to use a visual programming tool, such as Machine Learning for Kids, to create and train th Demonstrate how to test and evaluate their AI models by running them on different inputs and outputs and Know how to modify and improve their AI models by adding or changing data, blocks, or parameters and ol Identify ways to use AI to generate information, such as text, images, or music, using online tools, such as experimental such as text.
		 Know how to compare and contrast the information generated by AI with the information created by human Understand limitations and biases of AI by analysing and critiquing AI generated information. Demonstrate application of their AI skills by creating their own information products, such as stories, poems own AI models. Know how to use AI as a personal assistant to complete tasks, such as searching for information, scheduling using online tools or devices, such as Bing4, Cortana5, or Microsoft To Do.
3	AI assistant	 Demonstrate ways to communicate with AI assistants using natural language, such as speech or text, and ur requests. Know how to customise their AI assistants by changing their settings, preferences, or features and observe h Identify the benefits and risks of AI assistants by evaluating the usefulness and reliability of them. Demonstrate their AI skills to create their own personal assistant projects, such as a chatbot, a game charact own AI models. Demonstrate their understanding of what they learned in the previous lessons and by completing a quiz or behaviour and habits and set some goals for using AI responsibly and respectfully.
4	Text to image	 Define what AI is and identify some examples of AI in their daily life, such as voice assistants, face recognitio Explain how AI can generate images from text descriptions using natural language processing and compute Can use an online tool, such as DALL·E 2, to generate images from text descriptions and observe how the to Know how to compare and contrast the images generated by AI with the images they imagined or drew the differences. Demonstrate an ability to analyse and critique the images generated by AI and understand their limitations Can apply their AI skills to create their own creative writing products, such as stories, poems, or comics, usin illustration.
5	AI in Conversation	 Demonstrate an understanding of AI communication: Pupils will understand how AI can be used to commu conversation. Can identify conversational AI examples: Pupils will identify examples of conversational AI in daily life, such a Know how to create simple chatbots: Pupils will use online tools to create simple chatbots that can respond Be able to analyse AI responses: Pupils will analyse the responses generated by their chatbots, understandin AI. Know how to improve chatbot responses: Pupils will modify and improve their chatbots by adding more res Be able to discuss the ethical considerations of using AI in conversations, such as privacy and bias.
6	Coding Scripts	 Understand AI-assisted coding: Pupils will understand how AI can assist in writing and generating script cod Can identify AI coding tools: Pupils will identify and explore various AI tools that can help generate script co Be able to generate simple code snippets: Pupils will use AI tools to generate simple code snippets and und Know how to modify AI-generated code: Pupils will learn how to modify and enhance AI-generated code to Demonstrate an ability to create a Project with AI Assistance: Pupils will apply AI-assisted coding to create a Can discuss the benefits and limitations of using AI to generate code and reflect on their learning process.



or create new opportunities, but also how it can

their own AI models using data and blocks. nd checking their accuracy and performance. observing the effects on their results.

experiments with Google2 or Magenta.js demos3. nans and identify the similarities and differences.

ms, artworks, or songs, using online tools or their

ng events, setting reminders, or making reservations,

understand how they process and respond to their

how they adapt to their needs and preferences.

acter, or a smart device, using online tools or their

or a project. They will also reflect on their own online

tion, or online games.

ter vision techniques.

tool interprets and visualises their words.

nemselves and identify the similarities and

ns and biases. Sing the images generated by AI as inspiration or

nunicate and interact with humans through

h as chatbots and voice assistants.

nd to user inputs.

ing the strengths and limitations of conversational

esponses and refining existing ones.

ode.

code.

nderstand the generated code.

to fit their specific needs.

a small project, such as a game or a webpage.

		Coding
Year	Unit	
1	Unplugged Coding	 Know and describe the basic elements of coding, such as commands, sequences, loops, and events, using events is to perform a signal sequences using paper cards with symbols or words, such as move for cards to instruct a partner or a toy robot to move around a grid or a map. Demonstrate how to use loops and events to make their commands and sequences more efficient and interrepeat an action or respond to a signal, such as a clap or a whistle. Demonstrate their coding skills to create a simple board game, such as making a character move along a pacards, tokens, etc. Know how to debug their code by finding and fixing errors, such as missing cards, incorrect order, or wrong Know how to share their code with others and give and receive feedback on their work, such as commenting they would improve.
2	Introduction to Coding	 Understand basic coding concepts: Pupils will understand the basic concepts of coding, including command Recognise coding symbols and blocks: Pupils will recognize basic coding symbols and blocks used in visual Know how to create simple sequences: Pupils will create simple sequences of commands to achieve a specif Demonstrate how to debug simple programs: Pupils will learn to identify and fix errors (bugs) in simple programs. Know how to use loops in coding: Pupils will understand and use loops to repeat actions in their programs. Demonstrate how to create a simple animated story: Pupils will apply their coding skills to create a simple animated story.
3	Swift Playgrounds 1	 Know how to use the Swift Playgrounds app and use different tools and buttons to create and modify chara Demonstrate how to add and delete blocks from the programming area and understand how each block aff Understand how to combine multiple blocks to create a sequence of actions for their character and test their Demonstrate how to use the speed block to change the speed of their character's movement and compare Demonstrate how to use the repeat block to make their character perform an action multiple times and exp Know how to use the message block to make their character send or receive a signal from another character more characters.
4	Swift Playgrounds 2	 Understand the concepts and skills they learned in the previous year's Swift unit lessons and demonstrate the Demonstrate how to use the sound block to add sounds or music to their character's actions and explore how Demonstrate how to use the wait block to control the timing of their character's actions and experiment wite Demonstrate how to use the if block to make their character perform different actions based on a condition coding. Demonstrate how to use the random block to generate random numbers or choices for their character's act their code more fun and unpredictable. Know how their coding skills to create a final project, such as an animation, a story, or a game, using all the
5	HTML Functions	 Know how to use the Koder app interface and use different tools and buttons to create and modify HTML fil Understand how to add and delete HTML tags from the code editor and understand how each tag affects th Demonstrate how to combine multiple HTML tags to create a basic web page structure with headings, parage Demonstrate how to use the style attribute to change the appearance of HTML elements, such as color (NB Know how to use the class and id attributes to assign names to HTML elements and apply CSS rules to style



everyday examples and actions. orward, turn left, turn right, etc. They will use the

eractive, such as making a partner or a toy robot

path, collect items, or avoid obstacles, using dice,

ng directions.

ing on what they liked, what they learned, or what

nds and sequences.

al programming languages.

cific outcome.

ograms.

animated story using a visual programming tool. racters and backgrounds.

acters and backgrounds.

affects the character's behaviour.

neir code by pressing the green flag button.

e the effects of different speed values.

periment with different numbers of repetitions.

ter and create a simple interaction between two or

their understanding by completing a Socrative quiz. how sounds can enhance their code.

vith different durations of waiting.

on and understand how conditional logic works in

ctions and discover how randomness can make

e blocks they learned.

files.

the web page content.

ragraphs, lists, images, and links.

IB not colour), font, size, alignment, etc.

le them.

		 Know how to use the div and span tags to create containers for HTML elements and arrange them using CSS padding, etc.
6	HTML Advanced	 Review the concepts and skills they learned in the previous HTML unit and demonstrate their understanding Know how to use the table tag to create a data table with rows, columns, headers, and captions and style it etc.
		 Demonstrate how to use the form tag to create a web form with different input types, such as text, email, paper placeholders, and buttons to it. Demonstrate how to use the audio and video tags to embed multimedia content into their web pages and content into the pages and conten
		 autoplay, loop, muted, etc. Understand how to apply their HTML coding skills to create a web page about their current wider curriculum Demonstrate how to share their web page with others and give and receive feedback on their work, such as learned, or what they would improve.

		Robotics
Year	Unit	
1	Bee-Bot	 Recognise and name the buttons and symbols on the Bee-Bot and press them to make the Bee-Bot move for Plan and enter a sequence of commands for the Bee-Bot to follow and clear the memory when they want to s Know how to use a grid mat to guide the Bee-Bot's movements and estimate and measure the distance that Know how to use directional language such as up, down, left, right, clockwise, and anticlockwise to describe t instructions to move the Bee-Bot from one place to another on the grid mat. Debug sequences by checking for errors and correcting them and test their sequences by running them on the Create their own challenges for themselves and others by setting a starting point and an ending point for the challenges by creating and testing sequences.
2	Code and Go Robot Mouse	 Recognise and name the buttons and symbols on the Code & Go Robot Mouse and press them to make the Plan and enter a sequence of commands for the Code & Go Robot Mouse to follow and clear the memory will Know how to use a grid mat to guide the Code & Go Robot Mouse's movements and estimate and measure Know how to use directional language such as up, down, left, right, clockwise, and anticlockwise to describe the and give and follow instructions to move the mouse from one place to another on the grid mat. Debug sequences by checking for errors and correcting them and test their sequences by running them on the results. Create their own challenges for themselves and others by setting a starting point and an ending point for the and solve their challenges by creating and testing sequences.
3	Osmo Coding Awbie	 Know how to use the Osmo base and reflector to set up their iPad and launch the Osmo Coding Awbie app. Recognise and name the different coding blocks that control Awbie's movements and actions and connect th Know how to use the play button to execute their commands and observe how Awbie responds on the screet commands. Know how to use quantifiers to specify how many times Awbie should perform an action and use repeats to a Know how to use subroutines to save and reuse a sequence of commands and use magic to make Awbie do Complete different levels and challenges in the game by collecting strawberries, finding pets, solving puzzles, their sequences by finding and fixing errors.
4	Sphero	 Connect and control their Sphero ball using the Sphero Play app and explore different drive modes such as joe Know how to use the Sphero Edu app to program their Sphero ball using draw, block, or text coding and run Know how to use the sensors and LED lights on their Sphero ball to create interactive programs that respond Know how to use variables and operators to store and manipulate data in their programs and use logic and logic modes. Know how to use functions and events to organize and reuse their code and use comments and documentation.



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SS properties, such as display, position, margin,

ng by completing a Socrative quiz. t using CSS properties, such as border, background,

password, checkbox, radio, etc. and add labels,

control their playback using attributes, such as

um topic.

as commenting on what they liked, what they

forward, backward, left, and right. o start a new sequence.

at the Bee-Bot travels in each step.

e the Bee-Bot's movements and give and follow

h the Bee-Bot and observing the results. The Bee-Bot on the grid mat and solve their

ne mouse move forward, backward, left, and right. when they want to start a new sequence. re the distance that the mouse travels in each step. e the Code & Go Robot Mouse's movements

the Code & Go Robot Mouse and observing the

he Code & Go Robot Mouse on the grid mat

them together to form a sequence of commands. een. Clear the memory to start a new sequence of

o create loops that repeat a set of commands. o something special.

es, and building campsites. Know how to debug

s joystick, tilt, slingshot, and block drive. un their programs on their robot. nd to different inputs and outputs. d loops to control the flow of their programs. sation to explain their code.

		 Complete various challenges and activities that test their coding skills and creativity with their Sphero ball. S receive feedback on their work.
5	Micro:bit	 Identify the main features and components of the micro:bit such as the LED matrix, the buttons, the pins, the Connect their micro:bit to a computer or a tablet and use the MakeCode editor to create and download their Know how to use the LED matrix to display text, numbers, images, and animations on their micro:bit and use Know how to use the sensors on their micro:bit to detect light, temperature, motion, and direction and use or program react to different inputs. Know how to use the pins on their micro:bit to connect external components such as LEDs, buzzers, motors, control them. Know how to use the radio feature on their micro:bit to communicate with other micro:bits and create interativation.
6	Micro:bit 2	 Review and use sensors. Know how to do data logging. Understand advanced LED Matrix programming. Know how to use external components. Able to create simple functions. Understand basic communication with radio features.

Networks and Date			
Veer	Unit	Networks and Data	
Year 1	Networks and Data Basics	 Info: during this unit, Pupils will - Understand basic communication: Pupils will understand how people communicate using simple messages. Identify simple devices: Pupils will identify basic communication devices like telephones and computers. Recognise digital devices: Pupils will recognise digital devices used for communication and data sharing. Understand simple networks: Pupils will understand the concept of a simple network, such as how a compute Know about data: Pupils will know what data is and how it can be simple information like names and numbe Understand basic data sharing: Pupils will understand how data can be shared between devices, such as sended 	
2	Introduction to Digital Networks	 Identify network components: Pupils will identify basic components of a network, such as computers, servers Understand data transmission: Pupils will understand the basics of how data is transmitted over a network. Know types of data: Pupils will know different types of data (text, images, audio) and how they are used. Understand about internet safety: Pupils will understand basic principles of staying safe on the internet. Understand the role of Wi-Fi: Pupils will understand what Wi-Fi is and how it connects devices wirelessly to a 	
3	Building Networks Knowledge	 Know about more complex networks: Pupils will know about more complex networks, such as home network Understand internet vs. intranet: Pupils will understand the difference between the internet and an intranet. Know about data packets: Pupils will learn how data is broken down into packets to be sent over a network. Understand network protocols: Pupils will understand the basics of network protocols like HTTP and HTTPS. Understand the importance of cybersecurity: Pupils will understand the basic importance of cybersecurity in 	
4	Deepening Networks and Data Understanding	 Understand IP addresses: Pupils will learn what an IP address is and why it is important in a network. Understand data encryption: Pupils will understand the basics of data encryption and why it is important. Know about data storage: Pupils will know different ways data can be stored, including cloud storage. Understand network traffic: Pupils will understand the concept of network traffic and how data travels over a Understand the role of servers: Pupils will understand servers and how they manage data and resources on a 	
5	Advanced Networks and Data Concepts	 Understand data compression: Pupils will learn about data compression and why it is used. Know about the Internet of Things (IoT): Pupils will understand the concept of IoT and how everyday objects Know about data analytics: Pupils will know the basics of data analytics and how data is used to make decisic Understand network topologies: Pupils will understand about different network topologies (e.g., star, mesh, r 	



. Share their programs with others and give and

the sensors, and the battery holder. neir first program using blocks or JavaScript. use the buttons to control their program. e conditional statements and variables to make their

rs, and sensors and use loops and functions to

eractive games or projects that involve wireless data

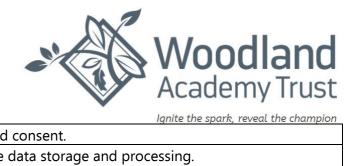
uter connects to a printer. pers. ending a picture from a tablet to a computer. ers, and routers.

o a network. orks with multiple devices. t. k. S. n protecting data.

r a network. n a network.

ts can connect to networks. sions. n, ring) and their uses.

		• Understand ethical data use: Pupils will understand ethical considerations in data use, including privacy and
6	Mastering Networks and Data	Understand cloud computing: Pupils will understand about cloud computing and how it allows for scalable of
		Understand data security measures: Pupils will understand about various data security measures, such as fire
		Know about network administration: Pupils will know the basics of network administration and the role of network administration and the role of network administration.
		Identify Big Data: Pupils will know about big data and identify how large sets of data are managed and analy



rewalls and antivirus software.

network administrators.

alysed.