

National Curriculum Objectives: In this unit, children will be taught to:

Networks		Graphing	
Skills	Knowledge	Skills	Knowledge
- Identify types of computer networks locally and globally. - Explain the hardware resources that a network might share. - Explain the difference between LAN and WAN. - Create a network diagram that includes hardware such as a router and different connected devices and peripherals. - Identify the terms Wi-Fi, mobile data and 5G as pertaining to wireless network connections. - Describe the difference between the Internet and World Wide Web giving examples of the services that both provide. - Give examples of web browser tools. - Give examples of online communication. - Give safety tips related to online communication.	- A network describes a group of connected computers that can share information and hardware resources. - LAN and WAN are different kinds of networks, - Networks can be wired or wireless or a combination of both - Certain hardware is required to create a network. - The difference between the World Wide Web and the Internet. - Web browsers are used to access the World Wide Web. - The existence of networks has opened online communication. Internet filtering and censorship are both used to make parts of the internet less accessible for different reasons.	- Create a variety of graphs and interpret these to draw conclusions. - Create a variety of graph types and determine the best format to represent specified data. - Create a comparative bar chart using the 2Graph tool. - Present the graph with a title, key and axis labels. - Export graphs from 2Graph and import them into a 2Publish file. - Use 2Graph and 2Calculate to create pie charts and then interpret what they show. - Compare the use of each tool in relation to graph production. - Decide when a line graph would be the most appropriate graphing format. - Create line graphs and use a graphing tool to add titles, labels and select the best scale for display. - Create line graphs showing multiple datasets and use these to draw conclusions about the data.	- Graphing helps to make sense of datasets and draw conclusions related to the collected data - There are different types of graphs. The data and the question that needs answering will determine the best graph type to produce. - Comparative bar charts can be used to visually compare several datasets. - Graphs can be exported from a graphing tool such as 2Graph and imported into other documents. - Pie charts represent data as parts of a whole. - Line graphs are used to represent the relationship between two variables as they change over time.
Blogging		Data detectives	
Skills	Knowledge	Skills	Knowledge
- Give examples of topics for existing or prospective blogs. - Create a blog post. - Plan the hook, look and feel, conclusion and reader engagement for a blog post. - Use an appropriate hook for a blog post by including either a quote, a story, a question or an observation to grab the reader's interest. - Write a blog post that is easy to follow, uses lists or bullets, bolds	- A blog is a regularly updated webpage, written about a particular topic. - Blogs consist of several blog posts. - A well written blog post has certain features that make the blog clear and easy to understand and increase reader engagement. - The 'hook' draws the reader into the blog.		

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key information and uses an appropriate conversational style. • Write a conclusion that summarises the main points of the post and might give the reader advice. • Follow the plan, draft, revise and edit process before publishing a blog post. • Read and respond to comments on their blog post. • Use commenting to increase engagement and guide future blog posts. • Decide whether content conforms to appropriate netiquette guidance. • Report posts or comments that violate community or legal guidelines.	• The look and feel of a blog post makes it clear for the reader to access the information. • The conclusion of a blog post ties the information in the post together. • The process of writing a blog post requires planning, drafting, revising and editing before publication. • Engaging with readers is crucial to the success of a blog. • Moderation exists to make the blogging environment a safe place for its readership and authors.		
Coding		Python	
Skills	Knowledge	Skills	Knowledge
•	•	•	•
Spreadsheets		3D modelling	
Skills	Knowledge		
•	•		