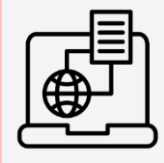

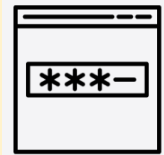

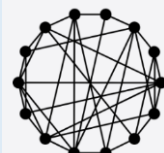


Computing Subject Concepts:

Connecting to the 'bigger picture' through our key concepts

	<h2>Data and Information</h2>	<p>By the time children finish Year 6, they will be able to collect, organise, and analyse data using digital tools such as spreadsheets and databases. They will interpret patterns, draw conclusions, and present findings using graphs, charts, and tables. They will also understand the importance of data privacy and security, including how personal information is collected and used online.</p>
	<h2>Creating Media</h2>	<p>By the time children finish Year 6, they will be able to use a range of digital tools to create and edit media, including images, videos, animations, and audio recordings. They will combine text, sound, and visuals to produce engaging digital content while applying key design principles such as layout, colour schemes, and typography. They will also be able to evaluate their work and make improvements based on feedback.</p>
	<h2>Using Technology Safely and Responsibly</h2>	<p>By the time children finish Year 6, they will be able to understand how to stay safe online by following digital safety rules, protecting their personal information, and recognising the risks of cyberbullying. They will develop critical thinking skills to assess the reliability of online information and identify misinformation. Additionally, they will demonstrate responsible digital citizenship by communicating respectfully and using digital content ethically.</p>
	<h2>Programming</h2>	<p>By the time children finish Year 6, they will be able to develop their coding skills using both block-based and text-based programming languages. They will create interactive programs by using loops, variables, conditionals, and functions, as well as designing their own games, animations, and simulations. They will also understand the role of algorithms in solving problems and be able to debug and refine their code effectively.</p>
	<h2>Computer Systems and Networks</h2>	<p>By the time children finish Year 6, they will be able to gain an understanding of how computers process information. They will learn how networks and the internet function, including key concepts such as IP addresses. They will also recognise the benefits and risks of cloud computing and online collaboration tools, and develop the ability to use search engines effectively, understanding how results are ranked and filtered.</p>