Networks Progression

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
• I can explain that websites have information on them • I know that email is similar to sending a letter using a computer • I know that I can see videos, pictures and text on websites • I know that there are rules to keep us safe online and offline • I understand I should be kind online and offline • I know a trusted adult should know what I am doing online • I understand that I need to have fun on and offline	• I can explain the difference between communicating via email and on a website (privacy) • I can explain that emails can be sent to more than one person at once • I can explain that computers share information • I know log in details should only be shared with trusted adults • I know I should talk to an adult before sharing information about myself • I know not everything on the Internet is true	• I can explain that a computer needs to be connected to a network to access it e.g. Ethernet/wifi for the Internet • I can recognise places where computer networks are used e.g. school file sharing • I can explain the basis of how wifi works e.g. needs a router • I can explain the difference between the Internet and a network • I can explain how a file is saved on a different computer to the one it was created • I understand the dangers from clicking links I don't know • I know where and how to report online bullying • I recognise when it is and isn't appropriate to use technology	• I can identify the different parts in a network e.g. switch, server • I know the difference between the Internet and internet services e.g. world wide web • I can explain how email works • I can explain the difference between email and chat • I can explain how a website is retrieved from a web server e.g. a request sent through wires until it finds the right one • I can explain that information travels through radio waves (wifi) and wires • I understand that personal information online can be shared • I can explain what a strong password is	• I can explain the role of an IP address • I can explain how a website request is sent from router to router before being found • I can explain that a webpage is written in HTML • I can explain the difference between the Internet and a web browser • I can explain that computers send information in a range of different ways e.g. electrical pulses, sounds, light • I understand that content shared online is almost impossible to remove • I understand what Internet trolling is and how to avoid it. • I understand the concept of a digital footprint	• I can explain the role of a DNS • I can explain why computers use binary to send information • I can explain that the Internet uses packets when sending data • I know the difference between physical, wireless and mobile networks. • I can explain why different methods are use to send information • I can design a webpage and create a basic HTML file • I am aware of the consequences of too much screen time • I understand the consequences of a digital footprint as I get older • I know Internet restrictions might be different on different devices and need to act accordingly

National Curriculum Coverage

<u>KS1</u>

• Use technology purposefully to retrieve digital content
• use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.

<u>KS2</u>

• Understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration
• use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.