



Computing Progression - Networks: Understand how networks can be used to retrieve and share information, and how they come with associated risks

Key Stage 1	Lower Key Stage 2	Upper Key Stage 2
Across KS1 pupils will:	In lower KS2 pupils will:	In upper KS2 pupils will:
Identify that some IT can be used in more than one way. Talk about uses of information technology. Demonstrate how IT devices work together. Explain the need to use IT in different ways. Identify the choices made when using It. Use IT for different types of activities.	Discuss why a network switch is needed. Recognise different connections and explain how messages are passed through multiple connections. Demonstrate how information can be passed between devices. Explain the role of a switch, server, and wireless access point in a network. Recognise that a computer network is made up of a number of devices. Identify how devices in a network are connected together. Identify networked devices around them. Identify the benefits of computer networks. Demonstrate how information is shared across the internet. Describe the internet as a network of networks.	Compare results from different search engines. Make use of a web search to find specific information. Refine a web search. Relate a search term to the search engine's index. Describe some of the ways that search results can be influenced. Explain how search engines make money. Recognise some of the limitations of search engines. Describe how computers use addresses to access websites. Explain that internet devices have addresses. Recognise that data is transferred using agreed methods. Explain that data is transferred over networks in packets.

	Discuss why a network needs protecting. Describe networked devices and how they connect explain that the internet is used to provide many services. Recognise that the World Wide Web (WWW) contains websites and web pages. Describe how to access websites on the WWW. Describe where websites are stored when uploaded to the WWW. Explain the types of media that can be shared on the WWW. Explain that internet services can be used to create content online. Explain what media can be found on websites. Recognise that they can add content to the WWW. Explain that there are rules to protect content. Explain that websites and their content are created by people. Suggest who owns the content on websites.	Identify and explain the main parts of a data packet. Explain that the internet allows different media to be shared. Recognise how to access shared files stored online explain how the internet enables effective collaboration and identify different ways of working together online. Recognise that working together on the internet can be public or private. Identify that there are a variety of ways to communicate over the internet. Explain that communication on the internet may not be private. Describe why navigation paths are useful. Explain what a navigation path is. Make multiple web pages and link them using hyperlinks. Create hyperlinks to link to other people's work. Evaluate the user experience of a website. Explain the implication of linking to content owned by others.
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