**Elworth CE Primary School**

**Computing Systems & Networks Skills Progression**

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|  | **Y1** | **Y2** | **Y3** | **Y4** | **Y5** | **Y6** |
| **Computing Systems & Networks** | To identify technology* I can explain technology as something that helps us
* I can locate examples of technology in the classroom
* I can explain how these technology examples help us
 | To recognise the uses and features of information technology* I can identify examples of computers
* I can describe some uses of computers
* I can identify that a computer is a part of information technology
 | To explain how digital devices function* I can explain that digital devices accept inputs
* I can explain that digital devices produce outputs
* I can follow a process
 | To describe how networks physically connect to other networks* I can describe the internet as a network of networks
* I can demonstrate how information is shared across the internet
* I can discuss why a network needs protecting
 | To explain that computers can be connected together to form systems* I can explain that systems are built using a number of parts
* I can describe that a computer system features inputs, processes, and outputs
* I can explain that computer systems communicate with other devices
 | To identify how to use a search engine* I can complete a web search to find specific information
* I can refine my search
* I can compare results from different search engines
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| To identify a computer and its main parts* I can name the main parts of a computer
* I can switch on and log into a computer
* I can use a mouse to click and drag
 | To identify information technology in the home* I can explain the purpose of information technology in the home
* I can open a file
* I can move and resize images
 | To identify input and output devices* I can classify input and output devices
* I can model a simple process
* I can design a digital device
 | To recognise how networked devices make up the internet* I can describe the different networked devices and how they connect
* I can explain how the internet allows us to view the World Wide Web
* I can recognise that the World Wide Web is the part of the internet that contains websites and web pages
 | To recognise the role of computer systems in our lives* I can identify tasks that are managed by computer systems
* I can identify the human elements of a computer system
* I can explain the benefits of a given computer system
 | To describe how search engines select results* I can explain why we need tools to find things online
* I can recognise the role of web crawlers

in creating an index* I can relate a search term to the search engine’s index
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| To use a mouse in different ways* I can use a mouse to open a program
* I can click and drag to make objects on a screen
* I can use a mouse to create a picture
 | To identify information technology beyond school* I can find examples of information technology
* I can talk about uses of information technology
* I can compare types of information technology
 | To recognise how digital devices can change the way we work* I can explain how I use digital devices for different activities
* I can recognise similarities between using digital devices and non-digital tools
* I can suggest differences between using digital devices and non-digital tools
 | To outline how websites can be shared via the World Wide Web* I can explain the types of media that can be shared on the World Wide Web (WWW)
* I can describe where websites are stored when uploaded to the WWW
* I can describe how to access websites on the WWW
 | To recognise how information is transferred over the internet* I can recognise that data is transferred using agreed methods
* I can explain that networked digital devices have unique addresses
* I can explain that data is transferred over networks in packets
 | To explain how search results are ranked* I can explain that search results are ordered
* I can explain that a search engine follows rules to rank relevant pages
* I can suggest some of the criteria that a search engine checks to decide on the order of results
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| To use a keyboard to type* I can tell you that writing on a computer is called typing
* I can type my name on a computer
* I can use the shift key to type a capital letter
* I can save my work to a file
 | To explain how information technology benefits us* I can demonstrate how information technology is used in a shop
* I can recognise that information technology can be connected
* I can explain how information technology helps people
 | To explain how a computer network can be used to share information* I can recognise different connections
* I can explain how messages are passed through multiple connections
* I can discuss why we need a network switch
 | To describe how content can be added and accessed on the World Wide Web* I can create media which can be found on websites
* I can recognise that I can add content to the WWW
* I can explain that new content can be created online
 | To explain how sharing information online lets people in different places work together* I can recognise that connected digital devices can allow us to access shared files stored online
* I can send information over the internet in different ways
* I can explain that the internet allows different media to be shared
 | To recognise why the order of results is important, and to whom* I can describe some of the ways that search results can be influenced
* I can recognise some of the limitations of search engines
* I can explain how search engines make money
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| To use the keyboard to edit text* I can open my work from a file
* I can use the arrow keys to move the cursor
* I can delete letters
 | To show how to use information technology safely* I can list different uses of information technology
* I can recognise how to use information technology responsibly
* I can say how those rules/guides can help me
 | To explore how digital devices can be connected* I can recognise that a computer network is made up of a number of devices
* I can demonstrate how information can be passed between devices
* I can explain the role of a switch, server, and wireless access point in a network
 | To recognise how the content of the WWW is created by people* I can explain that websites and their content are created by people
* I can suggest who owns the content on websites
* I can explain that there are rules to protect content
 | To contribute to a shared project online* I can suggest strategies to ensure successful group work
* I can make thoughtful suggestions on my group’s work
* I can compare working online with working offline
 | To recognise how we communicate using technology* I can explain the different ways in which people communicate
* I can identify that there are a variety of ways of communicating over the internet
* I can choose methods of communication to suit particular purposes
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| To create rules for using technology responsibly* I can identify rules to keep us safe and healthy when we are using technology in and beyond the home
* I can give examples of some of these rules
* I can discuss how we benefit from these rules
 | To recognise that choices are made when using information technology* I can identify the choices that I make when using information technology
* I can explain simple guidance for using information technology in different environments and settings
* I can enjoy a variety of activities
 | To recognise the physical components of a network* I can identify how devices in a network are connected with one another
* I can identify networked devices around me
* I can identify the benefits of computer networks
 | To evaluate the consequences of unreliable content* I can explain that not everything on the World Wide Web is true.
* I can explain why some information I find online may not be honest, accurate, or legal.
* I can explain why I need to think carefully before I share or reshare content
 | To evaluate different ways of working together online* I can identify different ways of working together online
* I can recognise that working together on the internet can be public or private
* I can explain how the internet enables effective collaboration
 | To evaluate different methods of online communication* I can compare different methods of communicating on the internet
* I can decide when I should and should not share
* I can explain that communication on the internet may not be private
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