**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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |