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| **Term ADVENT 1: Connecting computers**  **Subject Computers Year 3 Medium Term Planning** | | | | | | |
| **National Curriculum Objectives**   * Use,sequence, selection, and repetition in programs; work with variables and various forms of input and output * 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 * Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information | | | | | | |
|  | Lesson 1 | Lesson 2 | Lesson 3 | Lesson 4 | Lesson 5 | Lesson 6 |
| **Learning intention for each lesson:** | I know how explain that digital devices accept inputs. | I know how to identify input and output devices. | I know how to recognise how digital devices can change the way that we work. | I know how to explain how a computer network can be used to share information | I know through exploration how digital devices can be connected. | I know how to recognise the physical components of a network. |
| **Recall and retrieval** | .Esafety scenario  Heard the word? introduce new vocab and meanings | Esafety scenario  To explain how a digital device works. | To identify Esafety scenario  To identify different parts if a digital device. | Esafety scenario.  To explain how a mobile phone helps us. | Esafety scenario  To match words and their meanings | Esafety scenario  To match the network component pictures to the label. |
| **Sequence of knowledge throughout the lesson**  **:** | **Key knowledge**   * To know digital devices accept inputs. * To explain that digital devices produce inputs. * To know how to follow a process | **Key knowledge**   * To know how to classify input and output devices. * To know how to describe a simple process. * To know how to design a digital device. | **Key knowledge**   * To know how to explain how to use a digital device for different activities. * To know how to recognise similarities and differences between digital and non digital devices. * To know how to suggest differences between using digital and non digital tools. | **Key knowledge**   * To know how to recognise different connections. * To know how to explain that messages are passed through multiple connections. * To know how to discuss why we need a network switch. | **Key knowledge**   * To know how to recognise that a computer is made up of a number of devices. * To know how to demonstrate how information can be passed between devices. * To know how to explain the role of a SWITCH, SERVER and wireless access point in a network. | **Key knowledge**   * To know how to identify how devices in a network are connected together. * To know how to identify networked devices. * To know how to identify the benefits of computer networks. |
| **Scaffolding** | To match words to pictures to identify input, process, output | * Children will be able to describe a simple process. | * Children will be able to compare the use of digital devices and non-digital tools. | Children will be able to make a simple connection circuit diagram. | * Children will be able to demonstrate how information can be passed between devices | * Children will be able to identify how devices in a network are connected together |
| **Challenge** | * Children will be able identify examples the input, process, output model and then apply this to digital devices. | * Children will be able to design their own input, process, output model ‘invention’ | * Children will be able to justify their views as to the advantages or disadvantages of digital devices or non-digital devices | * Children will be able to explain how messages are passed through multiple connections | * Children will be able to explain the role of a switch, server and wireless access point on a network | * Children will be able to explain the benefits of computer networks |
|  | **Key Vocabulary**  Digital device, input, process, output | **Key Vocabulary**  Digital device, input, process, output | **Key Vocabulary**  Program, digital, non-digital | **Key Vocabulary**  Connection, network, network switch | **Key Vocabulary**  Server, wireless access point | **Key Vocabulary**  Network cables, network sockets |