Year 7 – Digital Technologies/Citizenship

2024 PROGRAM

NARROGIN SENIOR HIGH SCHOOL

Term 1

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| **Week** | **Lesson 1** | | | **Lesson 2** | | | |
|  | **SCSA** Curriculum descriptors | **Topic** | **Objectives** | **SCSA** Curriculum descriptors | **Topic** | | **Objectives** |
| **1** | **Investigating and Defining**  Define and break down a given task, identifying the purpose | **Topic**  Get to know the teacher.  Expectations of class and computers.  Assessment outline | **LI:**  Understand the expectation of digital technologies in 2024.  **SC:**  Identify 2 assessments that will be conducted in 2024 DT. | **Investigating and Defining**  Define and break down a given task, identifying the purpose | | **Topic:**  Logging in and signing out correctly.  Treatment of devices.  Connect navigation.  Logging into compass.  Logging into emails. | **LI**  Explore the variety of uses that connect has at NSHS.  **SC**  Identify the different uses of connect, compass and emails. |
| **2** | **Investigating and defining**  Define and break down a given task, identifying the purpose | **Topic**  Email signature.  Email etiquette  Setting up files  Opening an attachment and saving documents.  Attaching documents | **LI**  Explore the capabilities of emails.  **SC:**  Identify how to attach a document to an email.  Create an email signature | *Catch up lesson?*  **Investigating and defining**  Define and break down a given task, identifying the purpose | | **Topic:**  All about me PowerPoint. | **LI:**  Explore the different functions of Microsoft PowerPoint.  **SC:**  Create a PowerPoint about myself. |
| **3** | **Representations of Data**  Define and break down a given task, identifying the purpose | **Topic**  Typing skills | **LI:**  Practice typing skills.  **SC**  Identify practices in typing to improve | **Investigating and defining**  Define and break down a given task, identifying the purpose  Consider components/resources to develop solutions, identifying constraints | | GROK | **National Coding Challenge** |
| **4** | **Investigating and Defining**  Define and break down a given task, identifying the purpose | **Topic:**  Cyber Safety | **LI**  Explore and understand how to stay safe online  **SC**  Outline two ways to stay safe online. | **Investigating and defining**  Define and break down a given task, identifying the purpose  Consider components/resources to develop solutions, identifying constraints | | **GROk** | **National Coding Challenge** |
| **5** | **Digital Systems**  Different types of networks, including wired, wireless and mobile networks Hardware components of a network | **Topic**  Digital systems  (wired, wireless and mobile) | **LI**  Explore the different types of networks and digital systems  **SC**  Identify the difference between the three main types of digital systems | **Investigating and defining**  Define and break down a given task, identifying the purpose  Consider components/resources to develop solutions, identifying constraints | | **GROK** | **National Coding Challenge** |
| **6** | **Digital Systems**  Methods of data transmission and security in wired, wireless and mobile networks.  Specifications of hardware components and their impact on network activities | **Topic**  Wireless data transmission | **LI**  Explore the concept of wireless data transmission  **SC**  Outline the concept of wireless data transmission | **Investigating and defining**  Define and break down a given task, identifying the purpose  Consider components/resources to develop solutions, identifying constraints | | **GROK** | National Coding Challenge |
| **7** | **Designing**  Design, develop, evaluate and communicate alternative solutions, using appropriate technical terms and technology  **Digital Implementation**  Design plans, using a sequence of steps, and represent them diagrammatically and in English, to solve a problem and to predict output for a given input to identify errors. | **Topic**  Drawing basic data networks | **LI**  Explore the drawing of basic data networks  **SC**  Draw a basic data network | **Investigating and defining**  Define and break down a given task, identifying the purpose  Consider components/resources to develop solutions, identifying constraints | | GROK | National Coding Challenge |
| **8** | **Assessment 1 – Drawing Basic Data Networks** | | | **Assessment 1 – Drawing Basic Data Networks** | | | |
| **9** | **Assessment 1 – Drawing Basic Data Networks** | | | **Assessment 1 – Drawing Basic Data Networks** | | | |

Term 2

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| **Weeks** | **Lesson 1** | | | | **Lesson 2** | | | | |
| **1** | **Assessment 1 – Drawing Basic Data Networks** | | | | **Assessment 1 – Drawing Basic Data Networks** | | | | |
| **2** | **Digital Implementation**  Create digital solutions that include a user interface where choices can be made  **Producing and Implementing**  Safely make solutions using a range of components, equipment and techniques | | **Topic**  Choice Selection ie. If-then etc. | **LI**  Explore the role of choices in computing.  **SC**  Identify what choices can be made in computing, and the programs | **Digital Implementation**  Create digital solutions that include a user interface where choices can be made  **Producing and Implementing**  Safely make solutions using a range of components, equipment and techniques | | | **Topic**  Choice Selection ie. If-then etc. | **LI**  Explore the role of choices in computing.  **SC**  Identify what choices can be made in computing, and the programs |
| **3** | **Digital Systems**  Specifications of hardware components and their impact on network activities  **Digital Implementation**  Create and communicate interactive ideas collaboratively online, taking into account social contexts | **Assessment 2**  Cyber Security Case Study | | | **Digital Systems**  Specifications of hardware components and their impact on network activities  **Digital Implementation**  Create and communicate interactive ideas collaboratively online, taking into account social contexts | **Assessment 2**  Cyber Security Case Study | | | |
| **4** | **Digital Systems**  Specifications of hardware components and their impact on network activities  **Digital Implementation**  Create and communicate interactive ideas collaboratively online, taking into account social contexts | **Assessment 2**  Cyber Security Case Study | | | **Digital Systems**  Specifications of hardware components and their impact on network activities  **Digital Implementation**  Create and communicate interactive ideas collaboratively online, taking into account social contexts | **Assessment 2**  Cyber Security Case Study | | | |
| **5** | **Representation of data**  Binary is used to represent data in digital systems | **Topic**  Binary Code | | | **LI**  Explore the concept of Binary Codes  **SC**  Identify that ones and zeros form the basic code in computers | **Representation of data**  Binary is used to represent data in digital systems | | | |
| **6** | **Representation of data**  Binary is used to represent data in digital systems | | **Assessment 3**  Binary Code Adventure | | **Representation of data**  Binary is used to represent data in digital systems | | **Assessment 3**  Binary Code Adventure | | |
| **7** | **Representation of data**  Binary is used to represent data in digital systems | | **Assessment 3**  Binary Code Adventure | | **Representation of data**  Binary is used to represent data in digital systems | | **Assessment 3**  Binary Code Adventure | | |
| **8** | **Digital Implementation**  Create digital solutions that include a user interface where choices can be made **Producing and Implementing**  Safely make solutions using a range of components, equipment and techniques | **Topic**  Choice Selection ie. If-then etc. | | | **LI**  Explore the role of choices in computing.  **SC**  Identify what choices can be made in computing, and the programs | **Digital Implementation**  Create digital solutions that include a user interface where choices can be made  **Evaluating**  Independently apply given contextual criteria to evaluate design process and solutions | | | |
| **9** | **Digital Implementation**  Design the user experience of a digital system.  Implement and modify solutions, that include user interfaces within a programming environment, including the need for choice of options and/or repeating options | **Non Assessed Task**  Building an Interface (Interactive Kiosk Task) | | | **Digital Implementation**  Design the user experience of a digital system.  Implement and modify solutions, that include user interfaces within a programming environment, including the need for choice of options and/or repeating options | **Non Assessed Task** Building an Interface (Interactive Kiosk Task) | | | |
| **10** | **Digital Implementation**  Design the user experience of a digital system.  Implement and modify solutions, that include user interfaces within a programming environment, including the need for choice of options and/or repeating options | | **Non Assessed Task**  Building an Interface (Interactive Kiosk Task) | | **Digital Implementation**  Design the user experience of a digital system.  Implement and modify solutions, that include user interfaces within a programming environment, including the need for choice of options and/or repeating options | | **Non Assessed Task** Building an Interface (Interactive Kiosk Task) | | |
| **11** | **Investigating and defining**  Define and break down a given task, identifying the purpose  Consider components/resources to develop solutions, identifying constraints | | **Topic**  Scratch - Coding | | **Investigating and defining**  Define and break down a given task, identifying the purpose  Consider components/resources to develop solutions, identifying constraints | **Topic**  Scratch - Coding | | | |