

(D1 - D9) Primary 1:	(D1 - D9) Primary 2:	(D1 - D9) Junior:
<p><b>Understanding Technology:</b></p> <ul style="list-style-type: none"> <li>Recognizing and naming common technological devices and tools, such as computers, tablets, and smartphones.</li> <li>Exploring the basic functions of technology devices, including turning them on and off.</li> </ul> <p><b>Digital Literacy:</b></p> <ul style="list-style-type: none"> <li>Developing awareness of different types of digital media, such as images, videos, and audio recordings.</li> <li>Understanding how to interact with digital content, including using touchscreens and navigating simple interfaces.</li> </ul> <p><b>Mouse and Keyboard Skills:</b></p> <ul style="list-style-type: none"> <li>Developing basic motor skills to operate a mouse or trackpad, including clicking and dragging objects.</li> <li>Introducing keyboard awareness, such as pressing keys to make letters or numbers appear on the screen.</li> </ul> <p><b>Creative Expression:</b></p> <ul style="list-style-type: none"> <li>Engaging in digital creative activities, such as drawing simple pictures using digital tools.</li> <li>Exploring cause-and-effect relationships through interactive digital experiences, such as simple games or multimedia applications.</li> </ul> <p><b>Problem Solving and Exploration:</b></p> <ul style="list-style-type: none"> <li>Investigating and experimenting with digital tools and programs to discover their functions and capabilities.</li> <li>Solving simple problems encountered during digital activities, such as finding and selecting a desired item on the screen.</li> </ul>	<p><b>Basic Computer Operation:</b></p> <ul style="list-style-type: none"> <li>Turning on and off a computer or tablet device independently.</li> <li>Using a mouse or trackpad to navigate the screen and select objects.</li> </ul> <p><b>Keyboard Familiarity:</b></p> <ul style="list-style-type: none"> <li>Identifying and locating letters and numbers on a keyboard.</li> <li>Typing simple words or short sentences using the keyboard.</li> </ul> <p><b>Digital Literacy:</b></p> <ul style="list-style-type: none"> <li>Recognizing different types of digital media, such as images, videos, and text.</li> <li>Understanding how to interact with digital content, including clicking, dragging, and scrolling.</li> </ul> <p><b>Introduction to Coding Concepts:</b></p> <ul style="list-style-type: none"> <li>Exploring basic coding concepts such as sequences and algorithms.</li> <li>Using coding apps or programs designed for early learners to create and execute simple commands or instructions.</li> </ul> <p><b>Creative Expression:</b></p> <ul style="list-style-type: none"> <li>Engaging in digital creative activities, such as drawing pictures using digital tools.</li> <li>Exploring digital storytelling by sequencing images or adding text to digital pictures.</li> </ul> <p><b>Problem Solving and Critical Thinking:</b></p> <ul style="list-style-type: none"> <li>Solving simple problems encountered during digital activities, such as troubleshooting when an app or program does not work as expected.</li> </ul>	<p><b>Computer Basics:</b></p> <ul style="list-style-type: none"> <li>Demonstrating an understanding of basic computer terminology, such as desktop, icon, file, and folder.</li> <li>Using a mouse or trackpad to click, drag, and drop objects on the screen.</li> </ul> <p><b>Keyboard Proficiency:</b></p> <ul style="list-style-type: none"> <li>Typing simple words and sentences using the keyboard with increasing accuracy and speed.</li> <li>Understanding basic keyboard shortcuts for common actions, such as copying and pasting.</li> </ul> <p><b>Digital Literacy:</b></p> <ul style="list-style-type: none"> <li>Recognizing and understanding different types of digital media, including images, videos, and text.</li> <li>Navigating digital content using hyperlinks and interactive elements.</li> </ul> <p><b>Introduction to Coding Concepts:</b></p> <ul style="list-style-type: none"> <li>Exploring fundamental coding concepts such as sequences, loops, and conditionals through interactive activities and games.</li> <li>Using coding apps or programs designed for early learners to create simple programs and animations.</li> </ul> <p><b>Creative Expression:</b></p> <ul style="list-style-type: none"> <li>Creating and editing digital artwork using drawing and painting tools.</li> <li>Using digital storytelling tools to sequence images, add text, and create simple narratives.</li> </ul> <p><b>Problem Solving and Critical Thinking:</b></p> <ul style="list-style-type: none"> <li>Solving basic problems encountered during digital activities, such as debugging simple programs or troubleshooting technical issues.</li> </ul>

<p><b>Online Safety Awareness:</b></p> <ul style="list-style-type: none"> <li>• Developing understanding of basic online safety concepts, such as not sharing personal information online and seeking help from trusted adults when encountering unfamiliar or uncomfortable situations.</li> <li>• Exploring digital content in a safe and supervised environment.</li> </ul> <p><b>Collaboration and Communication:</b></p> <ul style="list-style-type: none"> <li>• Participating in digital activities that involve sharing and exchanging ideas with peers, such as collaborative drawing or storytelling projects.</li> <li>• Exploring basic communication tools, such as sending and receiving digital messages or participating in virtual discussions.</li> </ul> <p><b>Understanding Sequences and Patterns:</b></p> <ul style="list-style-type: none"> <li>• Recognising and creating simple sequences and patterns using digital tools, such as arranging objects in a specific order.</li> <li>• Exploring basic concepts of algorithms and instructions through simple sequencing activities.</li> </ul> <p><b>Exploring Digital Environments:</b></p> <ul style="list-style-type: none"> <li>• Engaging with digital environments and virtual worlds designed for early learners.</li> <li>• Navigating digital spaces and interfaces with support, such as selecting options from menus.</li> </ul> <p><b>Understanding Data and Information:</b></p> <ul style="list-style-type: none"> <li>• Exploring basic concepts of data and information, such as identifying different types of digital content and understanding that information can be stored and retrieved using technology.</li> <li>• Recognising simple symbols and icons used in digital interfaces to represent actions or concepts.</li> </ul>	<ul style="list-style-type: none"> <li>• Developing critical thinking skills by predicting and testing outcomes in digital environments.</li> </ul> <p><b>Introduction to Online Safety:</b></p> <ul style="list-style-type: none"> <li>• Learning basic online safety rules and guidelines, such as not sharing personal information online.</li> <li>• Exploring digital content in a safe and supervised environment, with guidance on appropriate online behaviour.</li> </ul> <p><b>Introduction to Data Handling:</b></p> <ul style="list-style-type: none"> <li>• Exploring basic concepts of data and information, such as understanding that digital content can be stored and retrieved using technology.</li> <li>• Sorting and categorizing digital objects or images based on simple criteria.</li> </ul> <p><b>Understanding Technology Use:</b></p> <ul style="list-style-type: none"> <li>• Exploring different uses of technology in daily life, such as communication, entertainment, and learning.</li> <li>• Recognizing and discussing the benefits and limitations of using technology for various purposes.</li> </ul> <p><b>Collaboration and Communication:</b></p> <ul style="list-style-type: none"> <li>• Participating in digital activities that involve sharing and exchanging ideas with peers, such as collaborative drawing or storytelling projects.</li> <li>• Exploring basic communication tools, such as sending and receiving digital messages or participating in virtual discussions.</li> </ul>	<ul style="list-style-type: none"> <li>• Predicting and testing outcomes in digital environments to develop critical thinking skills.</li> </ul> <p><b>Introduction to Online Safety:</b></p> <ul style="list-style-type: none"> <li>• Understanding the importance of online safety rules and guidelines, such as not sharing personal information online and reporting inappropriate content.</li> <li>• Applying strategies for safe and responsible use of digital devices and online resources.</li> </ul> <p><b>Data Handling and Organization:</b></p> <ul style="list-style-type: none"> <li>• Sorting and categorizing digital objects or images based on multiple criteria.</li> <li>• Understanding basic concepts of file organization and management, such as creating folders and organizing files.</li> </ul> <p><b>Understanding Technology Use:</b></p> <ul style="list-style-type: none"> <li>• Exploring different uses of technology in various contexts, such as education, entertainment, and communication.</li> <li>• Recognizing and discussing the impact of technology on daily life and society.</li> </ul> <p><b>Collaboration and Communication:</b></p> <ul style="list-style-type: none"> <li>• Participating in digital activities that involve sharing and collaborating with peers, such as creating collaborative presentations.</li> <li>• Using digital communication tools, such as email or messaging apps, to communicate with classmates or teachers.</li> </ul>
---	--	--

### (D9 - D11) Key Stage 3:

#### Computer Operation Proficiency:

- Navigating operating systems and user interfaces with confidence, including opening, saving, and closing files.
- Understanding basic system settings and preferences, such as screen resolution and volume control.

#### Keyboard Skills:

- Typing accurately and efficiently using the keyboard, including using correct finger placement and touch typing techniques.
- Demonstrating proficiency in using keyboard shortcuts for common actions and commands.

#### Digital Literacy and Internet Use:

- Understanding how to search for and access information online using search engines and web browsers.
- Recognizing and evaluating the reliability and credibility of online sources.

#### Introduction to Coding and Programming:

- Exploring coding concepts such as variables, loops, and events through block-based programming environments.
- Writing and debugging simple programs using visual programming languages or coding platforms designed for early learners.

#### Creative Digital Media:

- Creating and editing digital media projects, such as multimedia presentations, digital artwork, or simple animations.
- Using digital tools and software to enhance and manipulate images, audio, and video content.

#### Problem Solving and Computational Thinking:

- Applying computational thinking skills to solve problems and design solutions in digital environments.
- Decomposing problems into smaller, manageable parts and developing step-by-step algorithms to solve them.

#### Online Safety and Responsible Use:

- Understanding the importance of online safety practices, including protecting personal information, avoiding cyberbullying, and reporting inappropriate content.
- Applying strategies for safe and responsible use of digital devices and online resources, both at school and at home.

### (D11 - D13) Key Stage 4:

#### Advanced Computer Operation:

- Demonstrating proficiency in using a range of software applications and tools, including word processing, presentation software and spreadsheets.
- Understanding and customizing system settings and preferences to suit individual needs.

#### Touch Typing Mastery:

- Typing accurately and efficiently using touch typing techniques
- Demonstrating fluency in using keyboard shortcuts and commands for productivity and efficiency.

#### Digital Literacy and Information Literacy:

- Evaluating and critically analysing digital information from a variety of sources, including websites, online databases, and multimedia resources.
- Applying strategies for verifying the accuracy, reliability, and credibility of digital information.

#### Coding and Programming Skills:

- Programming and debugging more complex algorithms and scripts using text-based programming languages
- Developing and testing software applications or digital projects using programming principles and best practices.

#### Creative Digital Media Production:

- Producing and editing multimedia projects with a high level of creativity and technical skill, including digital artwork, videos, animations, and interactive presentations.
- Using advanced digital tools and software to enhance and manipulate digital media content.

#### Problem Solving and Computational Thinking:

- Applying computational thinking skills to solve complex problems and design solutions in digital environments.
- Decomposing problems into smaller, more manageable parts and developing algorithms and procedures to address them.

#### Cybersecurity Awareness and Online Safety:

- Understanding and implementing cybersecurity best practices to protect personal data, devices, and digital identities.
- Recognizing and responding to cybersecurity threats, such as malware, phishing attacks, and online scams.

**Data Handling and Analysis:**

- Collecting, organizing, and analysing data using digital tools and software, such as spreadsheets or databases.
- Understanding basic data visualization techniques, such as creating charts and graphs to represent data.

**Collaboration and Communication Skills:**

- Participating in collaborative digital projects with peers, including sharing and editing documents, presentations, and other digital artifacts.
- Using digital communication tools, such as email, messaging apps, or online forums, to communicate and collaborate with classmates and teachers.

**Understanding Technology and its Impact:**

- Exploring the uses and applications of technology in various contexts, such as education, entertainment, healthcare, and the workplace.
- Discussing the impact of technology on society and considering ethical and social implications of technology use.

**Data Handling and Analysis:**

- Collecting, processing, and analysing large datasets using advanced data analysis tools and techniques.

**Collaborative Digital Project Management:**

- Leading and managing collaborative digital projects from inception to completion, including planning, organizing, and delegating tasks.
- Communicating and collaborating effectively with team members using digital project management tools and platforms.

**Ethical and Responsible Technology Use:**

- Understanding ethical issues and dilemmas related to technology use, such as privacy, intellectual property, and digital rights.
- Applying ethical principles and guidelines to make responsible decisions about technology use and digital behaviour.

## (D13 - D16) Key Stage 5:

### **Advanced Computer Skills:**

- Demonstrating proficiency in using a wide range of software applications and tools for productivity, creativity, and communication.
- Understanding and customising system settings and preferences to optimise performance and user experience.

### **Coding and Programming Proficiency:**

- Writing and debugging programs and scripts using text-based programming languages
- Applying computational thinking skills to solve complex problems and develop software applications or digital projects.

### **Digital Literacy and Information Literacy:**

- Critically evaluating and analysing digital information from diverse sources, including websites, online databases, and social media platforms.
- Applying strategies for verifying the accuracy, reliability, and credibility of digital information and media.

### **Creative Digital Media Production:**

- Producing and editing multimedia projects with advanced creativity and technical skill, including digital artwork, animations, videos, and interactive presentations.
- Using professional-grade digital tools and software to enhance and manipulate digital media content.

### **Advanced Data Handling and Analysis:**

- Collecting, processing, and analysing large datasets using advanced data analysis tools and techniques.

### **Cybersecurity Awareness and Digital Citizenship:**

- Understanding the principles and practices of cybersecurity, including threat detection, prevention, and response.
- Practicing responsible digital citizenship by respecting privacy, intellectual property, and ethical norms in online interactions and behaviour.

### **Introduction to Computer Science Concepts:**

- Exploring foundational concepts in computer science, such as algorithms, data structures, and computational thinking.
- Understanding the principles of computer architecture, including hardware components, operating systems, and networks.

### **Collaborative Digital Project Management:**

- Collaborating effectively with peers to plan, organize and execute collaborative digital projects.
- Communicating and coordinating project activities using digital project management tools and platforms.

### **Ethical and Social Implications of Technology:**

- Investigating and analysing the ethical, social, and environmental impacts of technology use and innovation.
- Considering the ethical dilemmas and responsibilities of technology developers, users, and stakeholders.

### **Preparation for Further Study and Careers in Computing:**

- Developing skills and knowledge necessary for further study in computing-related fields.
- Exploring career pathways and opportunities in the field of computing and technology.