Switched on ICT Key Stage 2

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| **Year** | **New programme of study for computing** | **Unit** | **Unit title** | **Target skills** | **Suggested software**  **/ hardware** |
| **Year 3**  **Ages 7-8** | • 5 use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content  • 6 select, use and combine a variety of software (including internet services) on a range of digital devices to accomplish given goals, including collecting, analysing, evaluating and presenting data and information | 3.1 | We are researchers - Researching a topic | Research, presentation | FreeMind, Linkbunch, PowerPoint |
| • 5 be discerning in evaluating digital content  • 7 use technology safely, respectfully and responsibly  • 6 select, use and combine a variety of software (including internet services) on a range of digital devices to accomplish given goals | 3.2 | We are comic writers - Creating a comic strip | Digital photography, image editing, text | Comic Life / Publisher |
| • 1 design, write and debug programs that accomplish specific goals  • 1 solve problems by decomposing them into smaller parts  • 2 use sequence, selection, and repetition in programs  • 3 use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs | 3.3 | We are animators - Creating a cartoon | Programming, graphics | Scratch / PowerPoint |
| • 4 communication and collaboration  • 6 select, use and combine a variety of software (including internet services) on a range of digital devices to accomplish given goals, including collecting, analysing, evaluating and presenting data and information | 3.4 | We are opinion pollsters  - Opinion polling | Research, survey creation, data analysis, charts | Survey Monkey / Excel/ InspireData / Google Docs |
| • 4 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  • 7 use technology safely, respectfully and responsibly | 3.5 | We are communicators  - Here and there:  communicating | Text, email, forums, chat, video conference | Email, Videoconferencing software |
| • 5 be discerning in evaluating digital content  • 7 use technology safely, respectfully and responsibly  • 6 select, use and combine a variety of software (including internet services) on a range of digital devices to accomplish given goals, including collecting, analysing, evaluating and presenting data and information | 3.6 | We are presenters - Videoing performance | Video recording and editing | Movie Maker / iMovie / Adobe Premiere Elements |

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| **Year 4**  **Ages 8-9** | • 4 communication and collaboration  • 7 use technology responsibly, securely and safely | 4.1 | We are co-authors - Producing a wiki | Text creation, collaborative editing, research | MediaWiki / PBworks / Googlesites |
| • 6 select, use and combine a variety of software (including internet services) on a range of digital devices to accomplish given goals, including collecting, analysing, evaluating and presenting data and information | 4.2 | We are meteorologists - Presenting the weather | Data logging, data analysis, presentation, video recording | Excel / Google Docs, PowerPoint / IWB software |
| • 5 be discerning in evaluating digital content  • 6 select, use and combine a variety of software (including internet services) on a range of digital devices to accomplish given goals | 4.3 | We are musicians - Producing digital music | Audio recording, music composition, sequencing | JamStudio / Garage Band, Audacity |
| • 5 use search technologies effectively  • 6 collecting, analysing, evaluating and presenting data and information | 4.4 | We are historians - Then and now: databases | Survey creation, databases, presentation | Excel / Google Docs, SurveyMonkey |
| • 5 be discerning in evaluating digital content  • 6 select, use and combine a variety of software (including internet services) on a range of digital devices to accomplish given goals | 4.5 | We are artists - Fusing geometry and art | Vector graphics, programming | Scratch, InkScape / Illustrator |
| • 5 use search technologies effectively  • 5 be discerning in evaluating digital content  • 7 use technology responsibly, securely and safely  • 6 select, use and combine a variety of software (including internet services) on a range of digital devices to accomplish given goals | 4.6 | We are travel presenters  - Trip slideshow | Research, digital photography, video recording and editing | Movie Maker / PhotoStory |

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| **Year 5**  **Ages 9-10** | • 7 use technology responsibly, securely and safely  • 6 select, use and combine a variety of software (including internet services) on a range of digital devices to accomplish given goals | 5.1 | We are photographers - Themed photography | Digital photography, image library management,  photo editing | Picasa / Adobe Lightroom, GIMP / Photoshop |
| • 6 select, use and combine a variety of software (including internet services) on a range of digital devices to accomplish given goals | 5.2 | We are architects - Creating a virtual space | Research, 3-D modelling, image management | SketchUp / Picasa |
| • 4 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  • 7 use technology responsibly, securely and safely | 5.3 | We are bloggers - Media reviews | Text and other media, writing for an audience | WordPress / Blogger |
| • 5 be discerning in evaluating digital content  • 6 select, use and combine a variety of software (including internet services) on a range of digital devices to accomplish given goals | 5.4 | We are advertisers - Creating an advert | Research, video recording, video editing | MovieMaker, PowerPoint  / Word |
| • 4 the world-wide web; and the opportunities it offers for communication and collaboration  • 6 collecting, analysing, evaluating and presenting data and information. | 5.5 | We are statisticians - Analysing data | Data analysis and presentation, data logging | Excel, Word |
| • 1 design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems  • 2 use sequence, selection, and repetition in programs; work with  variables and various forms of input and output  • 3 detect and correct errors in algorithms and programs | 5.6 | We are traders - Summer fete games | Programming, spreadsheet modelling and analysis, graphics | Scratch / Gamemaker, Excel / Google Docs |

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| **Year 6**  **Ages 10-11** | • 5 use search technologies effectively, and be discerning in evaluating digital content  • 6 select, use and combine a variety of software (including internet services) on a range of digital devices to accomplish given goals | 6.1 | We are explorers - Creating geotrails | Photography, geolocation /  research | GoogleEarth, Picasa |
| • 5 use search technologies effectively, and be discerning in evaluating digital content  • 7 use technology responsibly, securely and safely  • 6 select, use and combine a variety of software (including internet services) on a range of digital devices to accomplish given goals, including collecting, analysing, evaluating and presenting data and information | 6.2 | We are fundraisers - Charity fundraiser | Research, DTP, graphics, data handling | Excel / GoogleSheet, Publisher |
| • 1 solve problems by decomposing them into smaller parts  • 2 use sequence, selection, and repetition in programs; work with variables and various forms of input and output  • 1 design, write and debug programs that accomplish specific goals  • 3 use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs | 6.3 | We are game developers - Programming an adventure game | Programming, graphics | PowerPoint / Scratch / Flash |
| • 3 use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs | 6.4 | We are environmentalists  - Modelling climate change | Research, spreadsheets, modelling, charts | Fate of the World, FreeMind, Camtasia Studio, Movie Maker |
| • 4 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  • 5 be discerning in evaluating digital content  • use technology responsibly, securely and safely | 6.5 | We are web developers  - Cyber safety research  / media | Research, collaboration, web design | GoogleSites / PBworks / MediaWiki |
| • 5 be discerning in evaluating digital content  • 7 use technology responsibly, securely and safely  • 6 select, use and combine a variety of software (including internet services) on a range of digital devices to accomplish given goals, including collecting, analysing, evaluating and presenting data and information | 6.6 | We are publishers - Creating a yearbook | Photography, image editing, graphics, text, DTP | Publisher, Google Docs  / Word |