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| **Skills** | **Year 1** | **Year 2** | **Year 3** | **lYear 4** | **Year 5** | **Year 6** |
| **Computer**  **Science** | * Understand what algorithms are and how they are implemented as programs on digital devices. * Create simple programs. * Use logical reasoning to predict the behaviour of simple programs. | * Understand what algorithms are and how they are implemented as programs in digital devices. * Understand that programmers execute by following precise and unambiguous instructions. * Create and debug simple programs. | Design and debug programs that accomplish specific goals.  Design and create programs that use sequence.  Control physical systems. | Design and create programs that use sequence.  Control physical systems.  Use logical reasoning to detect and correct errors in programs. | Work with variables.  Use selection and repetition in programs.  Use logical reasoning to explain how some simple algorithms work. Detect and correct errors in algorithms.  Simulate physical systems. | Work with variables.  Solve problems in writing programs by decomposing them into smaller parts.  Use logical reasoning to explain how some simple algorithms work. Detect and correct errors in them.  Simulate physical systems. |
| **Information**  **Technology** | Use technology purposefully to create, organise and store digital content. | Use technology purposefully to:   * Create, organise and store digital content. * Retrieve and manipulate digital content. | Choose from a variety of software and internet services to accomplish given goals.  Collect and combine information and data.  Design and create content to accomplish a given goal. | Collect and combine information data.  Design & create content to accomplish a given goal. | Analyse and evaluate information and data.  Design & create systems that accomplish given goals. | Combine a variety of software to accomplish given goals on a range of digital devices.  Analyse and evaluate information and data.  Design & systems that accomplish given goals. |
| **Digital Literacy** | Use technology safely and respectfully.  Know how to keep personal information private when using technology.  Know who to ask for help if they feel unsure about any online content. | Use technology safely and respectfully.  Describe common uses of information technology beyond school.  Know how to keep personal information private when using technology.  Know who to ask for help if they feel unsure about any online content. | Use technology responsibly.  Recognise acceptable and unacceptable behaviour and content.  Appreciate how search results are selected.  Selective when using digital content. | Use technology responsibly.  Recognise acceptable and unacceptable behaviour and content.  Understand how computer networks can provide multiple services, such as the world wide web.  Understand the opportunities computer networks offer for communication. | Understand the importance of using technology safely, respectfully and responsibly.  Identify a range of ways to report concerns and know who to contact.  Appreciate how search results are ranked for collaboration. | Understand the importance of using technology safely, respectfully and responsibly.  Is discerning in evaluating digital content.  Understands the basic workings of computer networks including the internet.  Understands the opportunities computer networks offer for collaboration. |