Middlefield Curriculum Progression Grids: Computing

Skills	Key Stage 1	Lower key Stage 2	Upper Key Stage 2
Computer Science	Understand what algorithms are and how they are implemented as programs on digital devices Understand that programmes execute by following precise and unambiguous instructions Create simple programs Debug simple programs Use logical reasoning to predict the behaviour of simple programs	Design and debug programs that accomplish specific goals Design and create programs that use sequence Control physical systems Use logical reasoning to detect and correct errors in programs	Work with variables Solve problems in writing programs by decomposing them into smaller parts Use selection and repetition in programs Simulate physical systems Use logical reasoning to explain how some simple algorithms work and detect and correct errors in them.
Information Technology	Use technology purposefully to create, organise and store digital content Use technology purposefully to 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	Combine a variety of software to accomplish given goals on a range of digital devices Analyse and evaluate information and data Design and create systems that accomplish given goals

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Skills	Key Stage 1	Lower key Stage 2	Upper Key Stage 2
Digital Literacy	Use technology safely and respectfully Keeps personal information private when using technology Knows they should ask for help if they feel unsure about any online content or contact and who to ask Describe common uses of information technology beyond school	Use technology responsibly Recognize acceptable / unacceptable behaviour and content Appreciate how search results are selected Is selective when using digital content Understands 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 about content and contact Appreciate how search results are ranked Is discerning in evaluating digital content Understands the basic workings of computer networks including the internet Understands the opportunities computer networks offer for collaboration