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| C:\Users\srobinson\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\CA3BB429.tmpC:\Users\srobinson\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\CA3BB429.tmp  **Flookburgh C of E Primary School**  Computing Knowledge: EYFS | |
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|  | **Algorithms** | **Create Programs** | **Reasoning** |
| National Curriculum | * *Pupils should be taught to understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions* | * *Pupils should be taught to create and debug simple programs* | * *Pupils should be taught to use logical reasoning to predict the behaviour of simple programs* |
| Knowledge Acquired | * Create a series of instructions and plan a journey for a programmable toy​ * Understand that algorithms are used on digital devices​ | * Create, store and retrieve digital content​ * Write a simple program and test it | * Predict what the outcome of a simple program will be (logical reasoning) |
|  | **Using Technology** | **Uses of IT Beyond School** | **Safe Use** |
| National Curriculum | * *Pupils should be taught to use technology purposefully to create, organise, store, manipulate and retrieve digital*​ | * *Pupils should be taught to recognise common uses of information technology beyond school*​   ​ | * *Pupils should be taught to use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies*​ |
| Knowledge Acquired | * Use a website and a camera​ * Record sound and play back​ * Understand that programs require precise instructions * Organise, retrieve and manipulate digital content | * Talk about some of the it uses in their own home​ * Know how technology is used in school and outside school | * Use technology safely​ * Keep personal information private​ * Know where to go for help if concerned |

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|  | **Create Programs** | **Develop Programs** | | **Reasoning** | | **Networks** |
| National Curriculum | * *Pupils should be taught to design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts ​* | * *Pupils should be taught to use sequence, selection, and repetition in programs; work with variables and various forms of input and output ​* | | * *Pupils should be taught to use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs ​* | | * *Pupils should be taught to 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 ​* |
| Knowledge Acquired | * Write programs that accomplish specific goals​ * ​give an ‘on-screen# robot specific instructions that takes the from a to b | * Design a sequence of instructions, including directional instructions​ * ​experiment with variables to control models | | * Discern when it is best to use technology and where it adds little or no value​ * Make an accurate prediction and explain why they believe something will happen (linked to programming) | | * Navigate the web to complete simple searches​ * Know how to search for specific information and know which information is useful and which is not. |
|  | **Search engines** | | **Using programs** | | **Safe use** | |
| National Curriculum | * *Pupils should be taught to use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content*​ | | * *Pupils should be taught to select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information*​ | | * *Pupils should be taught to use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact*​ | |
| Knowledge Acquired | * Use a range of software for similar purposes​ * Collect and present information​ * Select and use software to accomplish given goals | | * Understand what computer networks do and how they provide multiple services​ * Produce and upload a podcast | | * Use technology respectfully and responsibly​ * Know different ways they can get help, if concerned​ * Recognise acceptable and unacceptable behaviour using technology | |

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|  | **Create Programs** | **Develop Programs** | | **Reasoning** | | **Networks** |
| National Curriculum | * *Pupils should be taught to design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts ​* | * *Pupils should be taught to use sequence, selection, and repetition in programs; work with variables and various forms of input and output ​* | | * *Pupils should be taught to use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs ​* | | * *Pupils should be taught to 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 ​* |
| Knowledge Acquired | * Use technology to control an external device​ * Write a program that combines more than one attribute | * Develop a program that has specific variables identified​ * Develop a sequenced program that has repetition and variables identified | | * Analyse and evaluate information reaching a conclusion that helps with future developments​ * Design algorithms that use repetition and 2-way selection | |  |
|  | **Search engines** | | **Using programs** | | **Safe use** | |
| National Curriculum | * *Pupils should be taught to use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content*​ | | * *Pupils should be taught to select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information*​ | | * *Pupils should be taught to use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact*​ | |
| Knowledge Acquired | * Understand how search results are selected and ranked​ * Be aware that some search engines may provide misleading information | | * Combine sequences of instructions and procedures to turn devices on and off​ * Present the data collected in a way that makes it easy for others to understand | | * Understand that they have to make choices when using technology and that not everything is true and/or safe​ * Be increasingly aware of the potential dangers in using aspects of it and know when to already someone if feeling uncomfortable | |