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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
 |