**Skill Progression: Computing**

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|  | **Year 1** | **Year 2** | **Year 3** |
| **Computing** | I can use a systematic approach to control and predict the behaviour of simple programs (e.g control a roamer)  I can recognise common uses of information technology beyond school  I can identify simple mistakes in my work and evaluate and correct them  I am working towards the Key Stage 1 Key Skills list  I know to keep personal information private  I know where to go for help and support when I have concerns  I am able to navigate age appropriate websites | I can understand that an algorithm is a step by step guide to achieving a goal  I can give unambiguous instructions to a digital device to achieve a goal **(e.g. controlling a roamer to reach a given destination)**  I can create and debug (correct/improve) simple programs **(e.g. use a roamer)**  I can use technology purposefully to create, organise, store, manipulate and retrieve digital content **(e.g. opening, editing and saving a document)**  I can make basic evaluations of my work and thinks of ways to improve it  I have completed the majority of the Key Stage 1 Key Skills list  I can understand the need to keep passwords safe  I can start to identify concerning behaviour online  I can use the internet purposefully to achieve a goal  I know that not everything online is true | I can identify a range of ways to report concerns about content and contact  I can understand ways in which people communication online and the potential danger **(including devices such as Xbox and other online gaming)**  I can use internet to undertake purposeful research  I have awareness of copyright issues around images found online  I recognise that some algorithms rely upon a strict order to work **(e.g. using sequencing and repetition with a roamer)**  I can use various inputs **(e.g. keyboard presses)** and outputs **(e.g. playing a sound)** to control a computer program **(e.g. control a Scratch program with a keyboard input)**  I can explain how a program works  I can identify errors or improvements in a program that I have created  I can evaluate different aspects of my work and identify next steps  I can work with a partner to suggest areas of improvement in our work  I am starting to work on some of the Key Stage 2 Key Skills List |
| **Year 4** | **Year 5** | **Year 6** |
| I understand the function of a search engine and understand the importance of using the correct search terms  I am beginning to understand the concept of plagiarism  I can think about the risks of sharing personal information online **(including photographs)** and understand the idea of a digital footprint  I can design, write and debug **(e.g. correct/improve)** programs that accomplish specific goals **(e.g. using software to simulate physical processes or control physical objects)**  I can solve problems by breaking them into smaller parts  I can use logical reasoning to explain how some more complicated algorithms **(e.g. a sequence of instructions)** work  I can detect and correct errors in algorithms and programs  I can understand the opportunities that networks offer for communication and collaboration **(e.g. working on shared documents)** | I understanding that information found online is not always true and unbiased  I am starting to develop skills in identifying the origin of website  I can think critically about the information that I put online  I understand the difference between a computer network and the internet  I understand what a network is and how it links devices  I can use networks for communication and collaboration **(e.g. working on shared documents)**  I can test my work with peers in order to evaluate and improve it  I have completed the majority of the Key Stage 2 Key Skills list  I can design, write and debug algorithms to solve real world problems using physical or digital devices | I understand plagiarism, copyright and the concept of data protection  I can design and create a program and debug it by collecting data and feedback from a group  I can independently select and use software to achieve a goal  I can collect, analyse, evaluate and present data and information using a digital device  I can select and combine a variety of software to achieve a long term goal **(e.g. select software to plan, design, select, present, analyse, evaluate, improve and report on a long term project)**  I can evaluate feedback from a range of sources and a wider group of peers  I can confidently and independently use skills on the Key Stage 2 Key Skills List  I can design, write and debug programs and algorithms that respond to and learn from inputs |