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Year 7: Assessment statements
Subject: Computer Science

	Computational Thinking	Data Processing and Representation	Hardware and Software	Logic
Mastering (Indicative of student who will go on to achieve a grade 7-9 at GCSE, if they continue to progress as they are).	- Shows some independence in using a range of programming structures to solve problems. - Able to apply these structures appropriately and efficiently to solve problems. - Is able to compare algorithms and identify differences. - Code is clearly laid out and makes use of annotation to describe the ideas used.	- Shows a secure understanding of the fetch execute cycle and how this relates to computer hardware. - Has good understanding of how and why computers use binary to process and represent data. - Can carry out some of binary calculations. - Able to describe how computers represent different data types using binary.	- Able to securely describe the difference between hardware and software using examples. - Can describe the purpose of some hardware components. - Can identify the role and uses of some types of software and provide examples. - Is able to describe basic networking technology.	- Shows a secure understanding of what Boolean logic is and its role in computer science. - Can apply the and/or/not functions and evaluate the outcome. - Can make some use of logic within solving computational problems.
Advancing (Indicative of student who will go on to achieve a grade 5-6 at GCSE, if they continue to progress as they are).	- Developing the use, with support, of a range of programming structures to solve problems. - Shows some ability to apply these structures appropriately to solve problems. - Is able to compare algorithms. - Code is reasonably laid out and makes use of annotation to describe the ideas used.	- Is developing an understanding of the fetch execute cycle and can relate it to computer hardware. - Has some understanding of how and why computers use binary to process and represent data. - Can carry out some of binary calculations. - Able to state how computers represent different data types using binary.	- Able to describe the difference between hardware and software. - Can state the purpose of some hardware components. Can identify the role and uses of some examples of software. - Is able to describe limited networking technology.	- Is developing an understanding of what Boolean logic is and its role in computer science. - Can use the and/or/not functions. - Can make limited use of logic within solving computational problems.
Securing (Indicative of student who will go on to achieve a grade 3-4 at GCSE, if they continue to progress as they are).	- Beginning to make use of a range of programming structures to solve problems. - Able to apply some of these structures to solve problems. - Is able to compare algorithms. - Sequences of code are logical and includes some annotation.	- Shows a basic understanding of the fetch execute cycle and tries to relate it to computer hardware. - Has a basic understanding of how and why computers use binary to process data. - Able to state how computers represent different data types using binary.	- Can state the difference between hardware and software. - Can state the purpose of limited hardware components. - Can identify the uses of some examples of software. - Is able to identify limited networking technology.	- Shows limited understanding of what Boolean logic is and its role in computer science. - Can identify and/or/not functions. - Can make limited use of logic within solving computational problems.
Foundation (Indicative of student who will go on to achieve a grade 1-2 at GCSE, if they continue to progress as they are).	- With support, is beginning to make use of a range of programming structures to solve simple problems. - Sequences of code are logical and includes limited annotation.	- Shows a basic awareness of the fetch execute cycle. - Has a basic understanding of how and why computers use binary. - Is aware that computers represent different data types using binary.	- Can state what hardware and software are. - Can name some hardware components. - Can name some examples of software. - Can state what a network is used to do.	- Is aware of what Boolean logic is. - Can identify and/or/not functions.