



Year 2			
Subject	Knowledge	Skills	Key Vocabulary
<p>Computer Science</p> <p>Computers and Hardware</p> <ul style="list-style-type: none"> Recognise common uses of information technology beyond school <p>Computational Thinking</p> <ul style="list-style-type: none"> Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions Create and debug simple programs Use logical reasoning to predict the behaviour of simple programs <p>Digital Literacy and Online Safety</p> <ul style="list-style-type: none"> Use technology purposefully to create, organise, store, manipulate and retrieve digital content <p>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</p>	<p>E-Safety</p> <ul style="list-style-type: none"> I can explain why I need to keep my password and personal information private. I can describe the things that happen online that I must tell an adult about. I can talk about why I should go online for a short amount of time. I can talk about why it is important to be kind and polite online and in real life. I know that not everyone is who they say they are on the Internet. <p>Programming</p> <ul style="list-style-type: none"> I can give instructions to my friend (using forward, backward and turn) and physically follow their instructions. I can tell you the order I need to do things to make something happen and talk about this as an algorithm. I can program a robot or software to do a particular task. I can look at my friend's program and tell you what will happen. I can use programming software to make objects move. <p>I can watch a program execute and spot where it goes wrong so that I can debug it.</p> <p>Handling Data</p> <ul style="list-style-type: none"> I talk about the different ways I use technology to collect information, including a camera, microscope or sound recorder. I can make and save a chart or graph using the data I collect. I can talk about the data that is shown in my chart or graph. I am starting to understand a branching database. I can tell you what kind of information I could use to help me investigate a question. <p>Multimedia</p> <ul style="list-style-type: none"> I can use technology to organise and present my ideas in different ways. I can use the keyboard on my device to add, 	<p>Computer Science</p> <p>Hardware</p> <ul style="list-style-type: none"> Understanding what a computer is and that it's made up of different components Recognising that buttons cause effects and that technology follows instructions Learning how we know that technology is doing what we want it to do via its output. Using greater control when taking photos with tablets or computers Developing confidence with the keyboard and the basics of touch typing <p>Computational Thinking</p> <ul style="list-style-type: none"> Articulating what decomposition is Decomposing a game to predict the algorithms used to create it Using decomposition to decompose a story into smaller parts Learning what abstraction is Learning that there are different levels of abstraction Explaining what an algorithm is Following an algorithm Creating a clear and precise algorithm Learning that computers use algorithms to make predictions Learning that programs execute by following precise instructions Incorporating loops within algorithms <p>Programming</p> <ul style="list-style-type: none"> Using logical thinking to explore software, predicting, testing and explaining what it does Using an algorithm to write a basic computer program Learning what loops are Incorporating loops to make code more efficient <p>Information technology</p> <p>Using Software</p> <ul style="list-style-type: none"> Developing word processing skills, including altering text, copying and pasting and using keyboard shortcuts Using word processing software to type and reformat text Using software to create story animations Creating and labelling images <p>Using Data</p> <ul style="list-style-type: none"> Collecting and inputting data into a spreadsheet Interpreting data 	



	<p>delete and space text for others to read.</p> <ul style="list-style-type: none"> • I can tell you about an online tool that will help me to share my ideas with other people. • I can save and open files on the device I use. <p>Digital Media</p> <ul style="list-style-type: none"> • I can tell you why I use technology in the classroom. • I can tell you why I use technology in my home and community. • I am starting to understand that other people have created the information I use. • I can identify benefits of using technology including finding information, creating and communicating. <p>I can talk about the differences between the Internet and things in the physical world.</p>	<p>Wider Use of technology</p> <ul style="list-style-type: none"> • Learning how computers are used in the wider world 	
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