COMPUTING PROGRESSION OF SKILLS

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Computer Science	 I can explain that an algorithm is a set of instructions. I know that a computer program turns an algorithm into code that the computer understands I can work out what is wrong with a simple algorithm when the steps are out of order I can write my own simple algorithm I can make logical attempts to fix my code if it isn't working properly I can read code - one line at a time - and make a good prediction about what may happen in a programme 	 I can explain that an algorithm is a set of instructions to complete a task I know I need to carefully plan my algorithm so that it will work when I make it into a code I can design a simple program, using 2Code, that achieves a purpose I can find and correct errors in my program with logical, programable steps I can spot something in a program that has an action or effect 	 I can turn a simple real life situation into an algorithm for a program I can design an algorithm carefully thinking about what I want it to do and how I can turn it into a code. I can identify an error in my program and fix it. I can experiment with timers I can design and code a program that follows a simple sequence I can design and code a program that follows a simple sequence I can experiment with timers in my program I can identify the difference between using the effect of a timer or a repeat command in my code I can identify different ways that the internet can be used for communication I can use email, such as 2Email, to respond to others appropriately and attach files. 	 I can turn a real life situation to solve into an algorithm using a design that shows how I can accomplish this in code. I can use repetition in my code. I can use timers within my program designs more accurately to create repetition effects I can use selection in my programming - for example, using an IF statement for a question being asked and the program takes 1 of 2 paths I can use variables within my program and know how to change the value of these. I can use the user inputs and output features within my program, such as 'Print to Screen' I can identify errors in my code by using different methods and make logical attempts to correct this. I can read programs that contain several steps and predict the outcomes with increasing accuracy I recognise the main component parts of hardware, allowing computers to join and form a network. 	 I can make more complex, real life problems into algorithms for a program I can test and debug my programs as I work I can convert algorithms that contain sequence, selection and repetition into code that works. I can use sequence, selection, repetition and some other coding structures in my code. I can organize my code I can use logical methods to identify the daug orre efficiently I can use logical methods to identify the specific line of code I know the importance of computer networks and how they solve problems and enhance communication I recognise the main dangers that can come from computer networks I can use the most appropriate form of online communications according to the digital content - for example, 2Email and 2Blog 	 I can turn a more complex programming task into an algorithm, I can identify the most important aspect of a programming task (abstraction) I can decompose important aspects of a programming task in a logical way, identifying appropriate coding structures that would work I can test and debug my program and use logical methods to identify the cause of a bug I can identify a specific line of code that is causing a problem in my program and attempt to fix it I can translate algorithms that include sequence, selection and repetition into code and nest these structures within each other I can interpret a program in parts and make logical attempts to put the separate parts together in an algorithm to explain the program as a whole. I can explain the difference between the internet and the world wide web and I can explain the internet in school is possible

Information Technology	 I am able to sort, collate, edit and store simple digital content (name, save and retrieve their work) I can follow simple instructions to access online resources I can beginning to use Purple Mash software to complete tasks (2Quiz, 2Code or 2Count) I can beginning to use Purple Mash software to complete tasks (2Quiz, 2Code or 2Count) I can ame, save and find my work. I can use a Purple Mash program to organize information - such as 2Question or 2Calculate. 	 searches to retrieve digital content on a range of online systems both within Purple Mash and on internet search engines. I can collect, analyse, evaluate and present data and information using a selection of software (2Question, 2Graph) I can consider the most appropriate software to use when given a task by my teacher I can create purposeful content and attach this to email I can share digital content using a veriety of applications, such as 2Blog and 2Email. I can stare digital content using a veriety of applications, such as 2Blog and 2Email. I can censider the most appropriate software I can share digital content using a variety of 	 I can consider the intended audience carefully when I design and make digital content I can design and create my own online blogs and I can use criteria to evaluate the quality of my own and others' digital solutions suggesting refinements
Digital Literacy	 I can say what technology is I can say what examples of technology can be found in school I can say what examples of technology can be found in be found in be found in be found at home I can say what examples of technology can be found at home I can say what examples of technology can be found at home I can say what examples of technology can be found at home I can say what examples of technology safely and respectfully, keeping personal information private I know where to go for help and support if I am concerned about content or online technologies I can save my work in a safe place, such as 'My Work' folder I can save my work in a safe 'My Work' folder I can find information I need using a search engine I can save my work in a safe 'My Work' folder I can find information I need using a search engine I can save my work in a safe 'My Work' folder I can find information I need using a search engine I can save my work in a safe 'My Work' folder I can find information I need using a search engine I can save my work in a safe 'My Work' folder 	password of the online safety rules learnt at school online safety rules school online safety rules school I can explain the importance of having a secure password and not sharing it with others I can demonstrate how to use different online technologies safely I can demonstrate how to use different online I can demonstrate respectf I can explain the not sharing it with others I can demonstrate how to use a variety of online I always online b respectf I can explain the negative consequences of not keeping passwords safe and secure I know I have a right to privacy both on and off line. I know I mental I understand the I recognise that my wellbeing can be affected I know I be affected	relate appropriate privacy and the privacy of others behaviour to my right to online. rsonal privacy online. now to not let my wellbeing, or others, ted by the use of echnologies and