Subject: Computing Assessment Y5/6			
Unit 6.1 Coding			
 KS2 Programmes of Study Program of study design, write and debug programs that accomplish specific or simulating physical systems; solve problems by decomp parts use sequence, selection, and repetition in programs; work forms of input and output use logical reasoning to explain how some simple algorithm correct errors in algorithms and programs understand computer networks including the internet; ho services, such as the world wide web; and the opportuniti communication and collaboration use search technologies effectively, appreciate how result and be discerning in evaluating digital content select, use and combine a variety of software (including in of digital devices to design and create a range of programs accomplish given goals, including collecting, analysing, eva and information use technology safely, respectfully and responsibly; recogn acceptable/unacceptable behaviour; identify a range of w content and contact. 	them into smallerand change the world. Computing has deep links with mathematics, science, and design and technology, and provides insights into both natural and artificial systems. The core of computing is computer science, in which pupils are taught the principles of information and computation, how digital systems work, and how to put this knowledge to use through programming. Building on this knowledge and understanding, pupils are equipped to use information technology to create programs, systems and a range of content. Computing also ensures that pupils become digitally literate – able to use, and express themselves and develop their ideas through, information and communication technology – at a level suitable for the future workplace and as active participants in a digital world.Attainment targets By the end of each key stage, pupils are expected to know, apply and understand the matters, skills and processes specified in the relevant programme of study.		
 Knowledge, skills and concepts In this unit, the children will aim: To design a playable game with a timer and a score. To plan and use selection and variables. To understand how the launch command works. To use functions and understand why they are useful. To understand how functions are created and called. To use flowcharts to test and debug a program. To create a simulation of a room in which devices can be control To understand the different options of generating user input in To understand how user input can be used in a program. To understand how 2Code can be used to make a text-based and 			

Key Vocabulary				
	s, events, decomposition, execute, debug, flowchart,			
	output, procedure, properties, predict, selection,			
sequence, repeat, tab, simulation, timer, v				
Cultural				
Capital				
Key Assessment Opportunity				
• To design and make a text-based	l adventure game.			
Assessment Task in week 6	Year 5 - Working towards expectations			
To design and make a text-based	 Children begin to experiment with sequence, selection and repetition in their code. They being to understand the use of functions to make their programming more efficient. 			
adventure game.	 As their coding becomes more complex, they will require support to tackle debugging in a logical rather than trial and error 			
 I can follow through the code of how a text adventure can be 	way.			
programmed in 2Code.				
 I can design my own text- 	Year 5 - Working at Expectations			
based adventure game based	- Children begin to experiment with sequence, selection and repetition in their code. They being to understand the use of			
on one I have played.	functions to make their programming more efficient.			
 I can adapt an existing text 	- Children understand what a physical system is and can consider how they can program objects to behave like they would in			
adventure so it reflects my own ideas.	real life Children being to understand ow functions work.			
own ideas.	 Children understand that there are different variable types and being to explore how they can be used. 			
	Year 5 - Working at greater depth			
	- Children intuitively grasp the concepts of selection, repetition and variables. They like to challenge themselves to combine			
	these with other coding structures to personalise and to improve their programs. They inderstand how to use functions to			
	improve efficiency.			
	- Children understand and can apply mathematical concepts including co-ordinates, angles and negative numbers with ease			
	when coding.			
	- Children understand that there are different variable types, can see purpose for them and create and use them with ease.			
	Year 6 – Working towards expectation			
	- Children are beginning to be able to turn a more complex programming task into an algorithm by identifying the important			
	aspects of the task and then decomposing them in a logical way with support.			
	- They can then use this design to write a program using 2code.			
	- Support needed to tackle debugging in a logical way.			

	Year 6 - working at expected - Children are beginning to be able to turn a more complex programming task into an algorithm by identifying the important aspects of the task and then decomposing them in a logical way using their knowledge of possible coding structures. - They can then use this design to write a program using 2code. - Children can test and debug their program as they go and can use logical methods to identify the approximate cause of any bugs.
	 Year 6 - working at greater depth Children can turn a more complex programming task into an algorithm by identifying the important aspects of the task and then decomposing them in a logical way using their knowledge of possible coding structures and applying skills from previous programs. They can then use this design to write a program using 2code. Children's designs show that they are thinking both of the required task, and of how to accomplish this in code. Children can test and debug their program as they go and can use logical methods to identify the approximate cause of any bugs.
Assessment notes / evaluation – include S	EN / PP next step learning and areas that need more focus

Year 6	Working below expectations	Working within Expected Standard	Working above expected

Target	14 – 20%	80 %- 86%	20%
	(no more than 2 children)		
Term 1			
Term 2			
Term 3			

Year 5	Working below expectations	Working within Expected Standard	Working above expected
Target	14 – 20% (no more than 2 children)	80 %- 86%	20%
Term 1			
Term 2			
Term 3			