Objectives

Lesson	Title	National Curriculum	Objectives	Success Criteria	Vocabulary
5.2.1	iMove	 design, write and debug programs that accomplish specific goals, including 	 To understand that computer programs containing graphics use x y coordinates and turns are measured in degrees To use conditional (if) statements 	* The children program sprites to respond to movement using ifthen statements	Sprite; up; down; left; right; xy coordinates; condition; if
5.2.2	iSense	controlling or simulating physical systems; * solve problems by decomposing them into smaller parts	 To understand that some variables can only be true of false (boolean) To understand that programs can do different things if the value of a boolean variable is true or false (conditional statements) 	* The children program something to happen when one sprite touches another	Condition; if; boolean; true; false; variable
5.2.3	iNavigate	 use sequence, selection and repetition in programs; work with variables 	 To create a game that senses events on screen To program statements that make something happen in response to events on screen 	* The children program a sprite to navigate a maze using sensing and motion blocks	Sense; boolean; true; false
5.2.4	iVary	and various forms of input and output; * use logical reasoning to explain how some	★ To be able to understand what a variable is and why they are useful	* The children can explain how variables have been used in a program	Vary; variable; value; change; data; type; string; number; boolean; store; memory
5.2.5	iScore	simple algorithms work detect and correct errors in algorithms and programs	 To understand that variables can be used in programming to keep track of values To program statements that make something happen in response to the value of a variable 	* The children program a game which uses a variable to track 'lives'	Vary; variable; value; change; data; type; string; boolean; number; store; memory
5.2.6	iDesign		 To identify an appropriately scoped project To develop an outline of tasks and activities required to develop a project 	* The children design a computer game	design; storyboard; sequence; input; output

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Lesson	Title	National Curriculum	Objectives	Success Criteria	Vocabulary
5.2.7	iCode	* design, write and debug programs that accomplish specific goals, including controlling or simulating physical	* To use the computational concepts of sequence, selection, repetition and variables to program a computer game	* The children create a program according to a design	Condition; variable; boolean; true; false; repeat; loop; repetition; statement; algorithm; selection
5.2.8	iTest	systems; * solve problems by decomposing them into smaller parts * use sequence, selection and repetition in programs; * work with variables and various forms of input and output; * use logical reasoning to explain how some simple algorithms work * detect and correct errors in algorithms and programs	* To develop strategies for testing and debugging computer programs	* The children detect and correct errors in their programs	test; bugs; debug; amend; systematically

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