

Eversley Primary School– Knowledge Organiser



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Computing		Programming A – Variables in Games		Year 6		Summer 1	
Key Knowledge				Statutory requirements			
To define a 'variable' as something that is changeable	 I can explain that the way that a variable changes can be defined I can identify examples of information that is variable I can identify that variables can hold numbers or letters 			 design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts "use sequence, selection, and repetition in programs; work with variables and various forms 			
To explain why a variable is used in a program	 name ar I can ide a placeh single va 	xplain that a variable has a and a value lentify a program variable as sholder in memory for a value ecognise that the value of a		 of input and output" "use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs" 			
	variable can be changed			Key vocabulary			
To choose how	change	cide where in a program to a variable	Ī	Spelling		Definition	
to improve a game by using variables	 I can make use of an event in a program to set a variable I can recognise that the value of variable can be used by a programination of the variable can be used by a programination of the variable can be used by a programination of the variable can be used by a programination of the variable can be used by a programination of the variable can be used by a programination of the variable can be used by a programination of the variable can be used by a programination of the variable can be used by a programination of the variable can be used by a programination of the variable can be used by a programination of the variable can be used by a programination of the variable can be used by a programination of the variable can be used by a programination of the variable can be used by a programination of the variable can be used by a programination of the variable can be used by a programination of the variable can be used by a programination of the variable can be used by a programination of the variable can be used by a programination of the variable can be used by a programination of the variable can be used by a programination of the variable can be used by a programination of the variable can be used by a programination of the variable can be used by a programination of the variable can be used by a programination of the variable can be used by a program. 			Variable	memory	le is a placeholder in the of a computer and can hold l e at a time.	
To design a project that builds on a given example	projectI can creprojectI can explored	bose the artwork for my eate algorithms for my plain my design choices		Algorithm	instructi	ithm is a precise sequence of ons , or set of rules, for ing a task.	
To use my design to create a project	 the role I can creproject 	bose a name that identifies of a variable eate the artwork for my st the code that I have		Chatbot	simula t users, (puter program designed to te conversation with human especially over the internet. include these in our project designs on Scratch.	
To evaluate my project	oject • I can identify ways that my game could be improved			Adding comments			
I can share my game with others Possible experiences			s	showing that you understand how your code is working.			
 Design your own project using variables, using the Scratch software; <u>Scratch - Imagine, Program, Share (mit.edu)</u> Design, create and improve a game on Scratch. Compare it to other existing games and investigate how you can change the variables to make it more appealing to the user. 			T b a	To add a comment, right-click on the block that you want to comment on and add your comment in the text box.			
appealing to the user.Ask an adult or sibling at home to try out your			9	Share your project			

• Ask an adult or sibling at home to try out your game, testing if the code works.

 Share your game with others for them to try out. You can do this by copying the 9 digit number on the end of your project by adding it after scratch.mit.edu/projects/ Name your project and click on **Share**.

Write your name and the 9-digit number at the end of the project's URL on the activity sheet. My catching game

scratch.mit.edu/projects/407819775/

SCRATCH

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Create