KESTEVEN AND SLEAFORD HIGH SCHOOL

Computing Scheme of Learning



<u>Year 7 – Topic 3b – Game Programming</u>

ſ	Intent – Rationale
	Topic Intent:
	Curriculum Intent: Developing an understanding of some of the underlying principles of Computer Science, with a focus on programming, in preparation for future study of the subject
	KS3 PoS: use two or more programming languages to solve a variety of computational problems

Sequencing – what prior learning does this topic build upon?	Sequencing – what subsequent learning does this topic feed into?	
KS2 Computing (to varying degrees)	Year 8 Topic 3 and Year 9 Topic 4 (Programming)	
	GCSE and A-Level Computer Science	
What are the links with other subjects in the curriculum?	What are the links to SMSC, British Values and Careers?	
• N/A	• GB4e & GB4h	
What are the opportunities for developing literacy skills and developing learner confidence and enjoyment in reading?	What are the opportunities for developing mathematical skills?	
Directly linked to topic	• N/A	
o N/A		
Wider Reading/Interest:		
0 N/A		

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Computing Scheme of Learning

<u>Year 7 – Topic 3b – Game Programming</u>

Intent – Concepts

What knowledge will students gain and what skills will they develop as a consequence of this topic?					
Know					
 Understand how to create, save and edit a Scratch project 					
 Understand how to use basic sequence, selection and iteration programming constructs 					
<u>Apply</u>					
Create a playable game using MIT Scratch V2, using the graphics they created previously, making appropriate use of sequence, selection and iteration					
Extend					
What subject specific language will be used and developed in this tonic?	What opportunities are available for assessing the progress of students?				
what subject specific language will be used and developed in this topic:	what opportunities are available for assessing the progress of statents:				
Block programming: A visual programming techniques based on the concept of	 In-Lesson observation and feedback 				
-	 Self, Peer and Teacher evaluation with ensuing DIRT activity 				
Sequence: an action, or event, leads to the next ordered action in a predetermined order					
Selection: make choices depending on information using IF ELSE blocks					
Iteration: repeating a set of blocks a specified number of times or until a condition					
is met					
 What subject specific language will be used and developed in this topic? Block programming: A visual programming techniques based on the concept of sprites and interconnected blocks Block: an instruction to be performed Sequence: an action, or event, leads to the next ordered action in a predetermined order Selection: make choices depending on information using IF ELSE blocks Iteration: repeating a set of blocks a specified number of times or until a condition 					



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Intent – Concepts



Lesson title	Learning challenge	Higher level challenge	Suggested activities and resources
			See T drive