ST LAWRENCE C.E. PRIMARY SCHOOL SUBJECT MANAGER OVERVIEW

SUBJECT: Computing UNIT: ill met by moonlight CONCEPT: Conflict YEAR:5

BIG QUESTION	What is an algorithm and why do we need them?	
END OF UNIT OUTCOME	To create an animated adventure game	
NC OBJECTIVES	1. design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts 2. use sequence, selection, and repetition in programs; work with variables and various forms of input and output 3. use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs	
WEEK	**KEY KNOWLEDGE**	**RESOURCES**
1	**Know about safe choices of mobile phone ownership and etiquette.**	
RICH TASKS	Show pupils Power Point and watch the short video Cell Phone Safety for kids by a kid! - YouTube about how to stay safe on their phones. Children to work in pairs to create a video about the importance of staying safe on their mobile phones. Children can use their knowledge of green screen to add in backgrounds they wish. Children will need to write a script/plan in books to ensure they cover all the points about stage safe on their phones.	Ipads Green paper for green screen
2	**To write a simple algorithm**	
RICH TASKS	Show the children the scratch website. Children are to watch the getting started video so they understand what scratch is and how it could be used. Today's task is to follow the instructions on scratch to animate your name. Model	Laptops

	to class following the instructions then children go and try in pairs.	
3	**Change the effects to accomplish our goal**	
RICH TASKS	Children to watch tutorials on scratch about how to add a sprite, change the back ground and animate. Model to children how to follow the instructions. Children then work in partners to add their own sprite, background and then animate. Children save work in their files.	Laptops
4	**Create a chase game on scratch**	
RICH TASKS	Children to watch tutorials on scratch about how to create a chase game. Model to children how to follow the instructions. Children then work in partners to create a chase game. Children save work in their files. Children then play each others games.	laptops
5	**Create a pong game on scratch**	
RICH TASKS	Children to watch tutorials on scratch about how to create a pong game. Model to children how to follow the instructions. Children then work in partners to create a pong game. Children save work in their files. Children then play each others games.	laptops
6	Revision of key knowledge	
END OF UNIT OUTCOME	Children are to apply all their knowledge to animate an adventure game. Children watch tutorial on scratch about how to apply the skills they have learnt. Children then create their own adventure game.	