	Vocabulary	ng – Repetition in games Knowledge			
Algorithm	An ordered set of precise instructions		Scrutch:		
Infinite loop	An instruction that can repeat forever	W	Scratch is a program that we can use in order to coo games.		
Modify	To change or alter	○	We can use repeat and loop operator blocks in order and efficient to follow. This helps to run the code continuously or for a set r This is called the count-controlled loop.		
Debug	To find and fix errors		We can use algorithms to sequence movements, act effective animations.		
Count- controlled loop	A loop that repeats a set number of times	1 2 3	Scratch layout: There are three main areas in Scratch:		
Event block	A block that starts an action	when space ▼ key pressed	The blocks palette: contains all of the different blocks be used to control the animation.		
		when this sprite clicked when backdrop switches to backdrop1 ▼	Code area: This is where the blocks are placed to cre Stage with Sprite: This is where the output of the ch		
Sprite	A programmable character in Scratch		programmable character. Blocks:		
Value	The number used in a loop that affects how often something happens	E	Event blocks: Event blocks are coloured yellow and a happen e.g. the green flag being clicked. Action blocks: Action blocks include motion blocks;		
Sequence	The order in which blocks are written	°,→ °	These blocks can be used to make the sprite move, m Repeat block: This block can be placed around comments.		
Condition	A rule that must be true for something to happen	2 1 1 2 2 3 3 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The number of times something is repeated can be ty Count-controlled loop: We can control the number of number typed into the repeat block. The forever block		

order to code our own stories, animations and

cks in order to make our programs more logical

r for a set number of times.

ements, actions and sounds in order to program

ferent blocks – puzzle piece commands which can

laced to create a program.

ut of the character is presented. The **sprite** is the

ellow and are used to sense different events that

on blocks , sound blocks and looks blocks. ite move, make sounds and change appearance.

round command blocks that we want to repeat. ed can be typed into the white area.

re number of loops of a command with the orever block makes a command continue forever.

Quizzing													Quiz at home	
Ask your partner the questions below. Can they find the correct answer on the right-hand side?												Ask your adult to look at the KO.		
What is a sprite in Scratch?									A step-by-step set of precise				et of precise	Ask your amme to took at the RO.
										instructions				Quiz them using the vocabulary and
What colour are the event blocks in Scratch?										It saves time and makes code shorter				knowledge section or the quiz
Why would you use a forever loop in a game?										A bl		,	hat repeats	questions.
												nstructi		
Why is debugging important in games?									Place sound blocks inside a forever					• Can they beat your score?
What is a condition?									loop A programmable character					• Can they score more than 5? 10?
What is an algorithm?									It makes sure the game works properly					Curving score more dual 3: 10:
What's the benefit of using a loop?									Yellow					• Compete with your adult in the
What is									A rule that must be met for something				et for something	elimination quiz. Take it in turn to
'									to happen					ask each other questions. The first
How can you use loops to create background music?									To keep an action running					person to get a question wrong is
BIG Questions									Beat the adult				ndult	out.
 How can loops help keep track of scores in a game? Why is debugging especially important when using loops? What is the difference between repeating 'forever' and 'repeating 10 times'? How does using a loop change the way a sprite behaves? How could you explain a 'repeat until' loop to someone who has 									Your teacher can give 10 facts in 1 minute about this topic. How many can you give to your partner?					
never used Scratch before?														
Word scramble											1	Word se	earch	
Unscramble the key vocabulary from this topic below. You can create your	Р	٧	Α	L	U	Е	M	Υ	L	S	D	S	A I	6
own at the bottom	S	С	0	Ν	D	1	Т	1	0	Ν	Е	Р	Algorithm	Sequence
ahtgroilm	S	Е	Q	U	Е	Ν	С	Е	1	Q	В	R	Condition	Sprite
etiniifn	С	Q		N	_		NI		т	_		1	Debuq	Value
yfiodm		Q		114			14			_	0	_	J	
duebg	0	R	Α	J	J	V	Υ	Z	U	K	G	T	Event block	
etven cbklo	М	V	Α	L	G	0	R	- 1	T	Н	M	E	Infinite	
sperit	Е	٧	Е	Ν	Т	В	L	0	С	K	Н	Р	•	
eavlu	Z	Z	0	Т	Q	М	0	D	ī	F	Υ	Α	Modify	
eqnsceue	_			_	_									

		Skills								
		Creative tasks								
Design an animal catching game using this template										
	Sprite name	Sprite 1:	Sprite 2:							
	How will the sprite move?									
	Will there be any sounds?									
	Type of repetition used (🗸)	☐ Infinite (forever) ☐ Count-controlled	☐ Infinite (forever) ☐ Count-controlled							
	Write the algorithm for the sprite									
	Which backdrops will you use?		How will the game end?							
		Skill	'							
		Citat								
repeat 2	forever		What is the difference betw	reen these two loops?						
point in direction 9	change y by	50								
wait 1 seconds	wait 1	seconds								
point in direction -9	change y by	-50								
wait 1 seconds	wait 1	seconds								
3										