	NEW WATCH STRAND		1		
What is Scratch?				Notes	
Summary Scratch is a visual programming language, designed for people who have never done any programming before. Its a very good tool to learn the basics of coding. With Scratch, you can program your own interactive games, and animations. Scratch helps you to learn coding in a visual colour coded way and see how the blocks of col- oured code fit together to make a working program. It also lets you learn about more complicated coding concepts such as iteration and selection in an accessible way.			Moves sprites, changes angles and position		
			Controls the vis	Controls the visuals of the sprite	
			Plays audio files and effects		
			Event handlers		
			Conditionals an	Conditionals and loops etc.	
ratch is an online coding program— <u>www.sc</u>	atch.mit.edu used widely in the uk and usa to learn how to o	ode. Catego	ry	Notes	
Scratch User Interface			g Sprites can	interact with the surrounding	
AND CONTRACT OF AN AN ADVANCE AND			ors Mathematic	al operators, comparisons	
Can / Cannes 44 Swam	***	a a x Variabl	es Variable and	I List usage and assignment	
Metion	Stage	My Blo	cks Custom pro	cedures	
	~ ougo		9- rie en 🔶	The table above shows the	
		1 Coos	🖌 Costumes 🔰 🦣 Soun	categories of the programming blocks:	
and and a second second		Motion		When creating sprites and	
- O O		•	10 101211	backgrounds, users can draw	
			(15) ilegites	their own sprite manually, choose a Sprite from a library	
			(15) degreen	or upload an existing image.	
part in some a		S Sterits	Channel & Constant of	There are three tabs to creat	
		Carton Carton	random position +	your program on the coding area —Code, Costumes and	
				Sounds	

Operators

Veratives

My Blocks

aecs to random position +

B mentinz: B y B

the blocks into runnable scripts. Users may also create their own code blocks and they will appear in "My Blocks".

With a sprite selected at the bottom of the staging area, blocks of commands can be applied to it by dragging them from the block palette into the coding area. The Costumes tab allows users to change the look of the sprite in order to create various effects, including animation. The Sounds tab allows attaching sounds and music to a sprite.

The example here is coding the motion of the sprite

KS3 Knowledge Organiser

Introduction to Programming in Scratch

he Scratch	Interface	
Instructions and Controls	This area contains various blocks of code, which allows you to piece together logic in order to code your programs	
Scripts Area	This is the workspace upon which you drag and join the required blocks of code, to create the logic for your program	
The Stage	This is the canvas on which your program wil be displayed.	
Sprites	Programmable objects. For example, if you are creating a game, your character would be a sprite.	

What a lovely nem



Key Vocabulary

You didn't enter 1, 2 or 3 tor 2 un

Key Word	Definition
Sprite	An object which can be programmed in Scratch
Block	A piece of programming code in Scratch
Inputs	Values which get sent from the user into the computer
Variables	The place where inputs get stored by the program (they represent memory locations)
Outputs	The values which get sent from the computer to the user
IF Statement	The logic used to program decisions in programs



For more pathways, IF blocks can be placed inside other IF blocks.

And if it doesn't find either a 1, 2 or a 3 in the answer variable, then it will output an error message.