

## 7.3 Programming 1

The aim of this unit and the following unit ('programming 2') is to build your confidence and knowledge of the key programming constructs. The main programming concepts covered in this unit are sequencing, variables, selection, and count-controlled iteration.

Code 🔮 Costurnes de Sounds	Header	C S Scritch-Corr	Code Category	Example Block	Description	Sequence	One of the three basic programming constructs. Instructions
Motion Reco 10 staps tars (* 35 dogrees			Motion	move 10 steps	Code blocks that affect the position of a sprite on the stage		that are carried one after the other in order.
nd ter 🤊 🚯 dayree	Code	Stage	Looks	switch costume to costume2 -	Code blocks that change the appearance of a sprite or stage	Selection	One of the three basic programming constructs. Instructions that can evaluate a Boolean expression and branch off to one
Block Palette	Area .	Stage	Sound	play sound Meow - until done	Code blocks that make a sound		or more alternative paths.
arra Palelle arra var nachor (a) pol back (back (b))	۹	belo b	Events	when 📕 dicked	Code blocks that affect when a script begins to run	Iteration	One of the three basic programming constructs. A selection of code that can be repeated either a set number of times (count-controlled) or a variable number of times based on the
change i by 💿	() (=)	Sprite Pane	Control	repeat 10	Code blocks that control selection and iteration in a script		evaluation of a Boolean expression (condition-controlled).
	Conditions		Sensing	touching color ?	Code blocks that run when a specific action occurs	Variable	A value that can change depending on conditions or information passed to the program.
	conditions of oper operators (and, or		Operators	pick random 1 to 10	Code blocks to run mathematical operations	Boolean expression	An algebraic expression which has a Boolean value
-3-4				set my variable - to 0	Code blocks that store a value to be used in a script		
						Comparison operator	Used to compare two expressions
if		then	if		then	Computer bug	Code that causes your computer to behave in an unexpected way
						Resilience	The capacity to recover quickly from difficulties
			else			Subroutine	A block of code within a program that is given a unique, identifiable name. Supports code reuse and good programming technique.
					В	Decomposition	Breaking down a problem into smaller, more manageable parts in order to make the problem easier to solve
						List	A data structure that allows multiple pieces of data under a single name
						Data structure	A way or organising and managing data in a programming
Runs the co	de in the block if the	condition is true	Runs the code in gap A if the condition is true. Runs the code in gap B if the condition is not true (false)				language that ideally enables efficient access and modification of the data