

## Leybourne Ss. Peter and Paul CEP Academy - Knowledge Organiser



Action

Alert

Key Learning
To represent a program design and algorithm.
To create a program that simulates a physical
system using decomposition.
To explore string and text variable types so that the
most appropriate can be used in programs.
To use the Launch command in 2Code Gorilla
To program a playable game with timers and
scorepad.

	Key Images	
Open desig	n mode in 2Code	Design
Switch to coo	le mode in 2Code	Exit design
Add a new	Tab to your code	My Cox
Creating a	variable in 2code	Select to type of variable    Select to type of variable
	ples of combining I strings to print to the screen	The second secon
A change variable block		change variable
The Launch command block		The second of th
Key Questions		
What does	Creating a program	n where the objects

The Launch	n command block	Fig. 4 white or college by cards.  The change made recovery College on well cape.  College of the college of th
Key Questions		
What does simulating a physical system mean?	behave as they wo world. For example that uses angles, s simulate kicking a t simulating a physic	e, a football program peed and friction to football. When cal system, you first tem down into parts (decomposition). will come together
Describe how you would use variables to make a timer countdown and a scorepad for a game.	every second. Add design view to disp Score: create a var score, each time the	to the starting s. Add a Timer eats and subtracts 1 a text object in olay this number. riable to store the
Give examples of how you could use the Launch	Clicking on a button the program to ope program or a webp	ens another 2Code

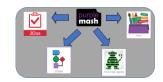
7.1.0.1	the screen.
Algorithm	A precise step by step set of instructions used to
790	solve a problem or achieve an objective.
Bug	A problem in a computer program that stops it
3	working the way it was designed.
Code	Design what your program will look like and what it
Design	will do.
Command	A single instruction in a computer program.
Control	These commands determine whether parts of the
	program will run, how often and sometimes, when.
Debug/	Looking for any problems in the code, fixing and
Debugging	testing them.
Design	Used to create the look of a 2Code computer
Mode	program when it is run.
Event	Something that causes a block of code to be run.
Get Input	This puts the text that a user types into the
	computer's temporary memory to be used to control
	the program flow.
If	A conditional command. This tests a statement. If the
	condition is true, then the commands inside the block
	will be run.
If/ Else	A conditional command. This tests a statement. If the
	condition is true, then the commands inside the 'if
	block' will be run. If the condition is not met, then the
	commands inside the 'else block' are run.
Input	Information going into the computer. Can include
	moving or clicking the mouse, using the keyboard,
	swiping and tilting the device.
Output	Information that comes out of the computer e.g.
Object	sound.
Object	An element in a computer program that can be
	changed using actions or properties. In 2Code, buttons, characters and vehicles are types of objects.
Repeat	This command can be used to make a block of
ποροαί	commands run a set number of times or forever.
Sequence	This is when a computer program runs commands in
	order. In 2Code this can also include "repeat" or a
	timer.
Selection	This is a conditional/decision command. When
	selection is used, a program will choose a different
	outcome depending on a condition.
Simulation	A model that represents a real or imaginary situation.
Timer	Use this command to run a block of commands after
1111161	a timed delay or at regular intervals.
Variable	A named area in computer memory. A variable has a
7 41 14010	name and a value. The program can change this
	variable value.

**Key Vocabulary** 

Types of commands, which are run on an object.

They could be used to move an object or change a

This is a type of output. It shows a pop-up of text on





command in 2Code

