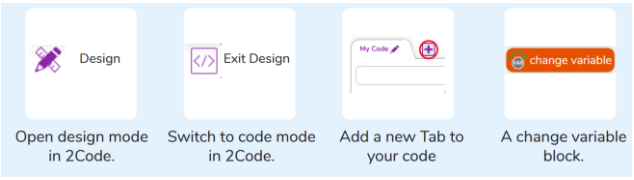
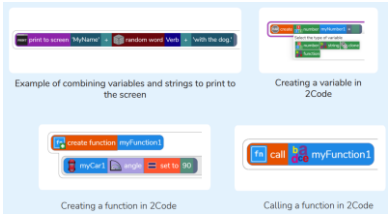
St Mary's Horsforth – Computing Knowledge Organiser
Year 5 – Spring 1
Unit 5.1 Coding

Enquiry Question: What do the terms decomposition and abstraction mean?





What should I already know?	What will I know at the end of the unit?
• I can begin to understand selection in computer programming. • I understand how an IF statement works. • I understand how to use co-ordinates in computer programming. • I understand the 'repeat until' command. • I understand how an IF/ELSE statement works. • I understand what a variable is in programming. • I can use a number variable. • I can create a playable game.	• I can begin to simplify code. • I can create a playable game. • I understand what a simulation is. • I can program a simulation using 2Code. • I know what decomposition and abstraction are in computer science. • I can take a real-life situation, decompose it, and think about the level of abstraction. • I understand how to use friction in code. • I can begin to understand what a function is and how functions work in code. • I can understand what the different variables types are and how they are used differently. • I understand how to create a string. • I understand what concatenation is and how it works.

Key Vocabulary

Abstraction	Event	Properties
Action	Function	Repeat
Algorithm	Input	Selection
Concatenation	Nesting	Sequence
Debug/Debugging	Object	Simplify
Decomposition	Output	Timer
Efficient	Physical System	Variable
Flowchart		

Key Resources