1		2	3		4		5	6	
M			Programming essentials in Scratch – part I	Modelling data usi spreadsheets			ng essentials ch – part II	Using media – Gaining support for a cause	
Topic Overview:									
This unit begins right where 'Programming I' left off. Learners will build on their understanding of the control structures' sequence, selection, and iteration (the big three), and develop their problem-solving skills. Learners will learn how to create their own subroutines, develop their understanding of decomposition, learn how to create and use lists, and build upon their problem-solving skills by working through a larger project at the end of the unit.  Links  Year 7 – Programming essentials part 1, Year 8 – Mobile App, Year 9 - Python Programming, GCSE – Edexcel Topic 6 Programming									
Lesson Sequence:									
the Less called Less type there Less show tool Less will over External as a National Control of the Less can be as a control of the Less can be a control of the Less can be a control of the	Lesson 7: You've got the moves! - This lesson is designed to formalise the use of subroutines, a technique that has been introduced gently over the previous unit. Learners will create a dance battle game by decomposing dance moves and creating subroutines for each move.  Lesson 8: Fly cat fly! - Learners are introduced to the concept of condition-controlled loops by using the PRIMM approach with a Scratch game called 'Fly cat, fly!'. They will predict, run, investigate, and modify code in order to build confidence with using condition-controlled loops.  Lesson 9: Loop the loop! - Learners should have a grasp of each type of iteration available to them in Scratch. This lesson focuses on when each type of iteration should be used. It will give learners the evaluative skills to implement iteration in their own programs as they start to develop them.  Lesson 10: Treasure those lists! - Learners are introduced to lists during this lesson. There is initially an educator-led demonstration on a simple shopping list application created in Scratch. Learners then dig deeper into lists by navigating through a treasure hunt game. The object of the game is to collect and swap the right items in order to reach the next level. Learners should use their investigation skills to discover the essential tools that Scratch can offer surrounding lists.  Lessons 11 & 12: Translate this! - Learners are given a scenario to create a translation quiz for a Modern Foreign Languages teacher. The learners will decompose the problem and start to build a Scratch program to meet the requirements. This is a pair programming project that takes place over two lessons; pairs will develop their programs to differing levels. A rubric is to be used for peer- or self-assessment to check progress. Extension activities allow learners to explore more challenging aspects of the solution. In Lesson 12, learners will be given a multiple choice quiz as a formal final assessment.  National curriculum links  To use two or more programming languages, at least on								
0					Topic Resources:				
Sequence of Lessons:				Knowledge Map:	7.5 – Prog	ramming 2	Any other Resources:	Scratch	
1	You've got the move	25!		Assessment:					
2	Fly cat fly!			Knowledge:		20 mark multiple choice questions			
3	Loop the loop!			Application of Knowledge:		Paired Programming Scenario			
4	Treasure those lists!			Supportive	Reading:				
5	Translate this! (Part	1)		BBC Bite Size		Programming - KS3 Computer Science - BBC Bitesize  Chapter 6			
6	Translate this! (Part	2)		KS3 Computing Complete Revision & Practice -		Available from: KS3 Computing Complete Revision			

Scheme of Learning: Year / Computing

Topic Sequence: