unit	use Scratch 3.					
Links Year	7 – Programming essentials part 2, Year 8 – Mobile App, Year 9 - Python Pr	ogramming, G(SE – Edexo	el Topic 6 Progra	mming	
Less	on Sequence:					
under pairs Less with Less the first tess state intro evaluates focus take Less mair	on 1: Introduction to programming and sequencing: Learners will erstand the precise nature of instructions that computers need to a to place blocks of code into the appropriate subroutines so that the on 2: Sequence and variables: In this lesson the learners will be in sequences. Learners will be given a Scratch program where they won 3: Selection: The focus of this lesson is to introduce learners to flow of a program. The lesson starts with activities that allow the leollowed by a PRIMM activity using another version of the 'Chat witements). on 4: Operators: This lesson will build on the previous lesson by intements. The learners will start by following Scratch code and working additional to logical and comparison operators before taking part in a least to 'true' or 'false' using various different expressions. on 5: Count-controlled iteration: In this lesson learners will be intressed on count-controlled iteration. The learners will be given an intense of the count of the count of the first unit of pronons of the first unit of pronons are problem. This is the final lesson of the first unit of pronons of the same task where they are required to independent on the transmitted several key algorithms that reflect computational the algorithms for the same problem. Understand several key algorithms that reflect computational the algorithms for the same problem. Understand simple Boolean logic (e.g. and, or, and not). Create, reuse, revise, and repurpose digital artefacts for a given a content of the count of the cou	execute. Lea heir program troduced to v will work in p the concept of earners to und h Big Ed' program troducing the ng out what to n activity who roduced to the efficient program ogramming in dently work the stextual, to see velop modulation	rners will will play to arriables a airs to pre of selection derstand e gram from the programe they are the they are the	be taught the she song corrects well as the opdict, run, investor statements a expressions that the last lesson gical and company will output give given a playing of iteration, the asked to spot at the main activities to complete sites of company to com	ong Frère Jac tly. oportunity to tigate, and m nd how they t evaluate to this time us arison operat given differer ng card and h e examples of patterns and the examples of patterns and the examples of patterns and the examples of the less and and and he the examples of the examples of the the examples of the the utility	get more confident hodify. can be used to control 'true' or 'false'. This will hing selection (If tors to use in selection at inputs. They will be have to decode if it will be specifically direpetition. They will be ent. on will be learners' we game. ems; make appropriate nctions of alternative
		Topic Resources:				
Seq	uence of Lessons:	Knowledge Map:	7.3: Prog	ramming 1	Any other Resources:	Scratch
1	Introduction to Sequencing	Assessment:				
2	Sequence and Variables	Knowledge:		2 homework activities (in Lesson 2 (4) and Lesson 5 (6)) that ask a set of multiple-choice questions.		
3	Selection	Application of Knowledge:		Learners to complete a set of tasks using a Scratch program		
4	Operators	Supportive Reading:				
5	Count Controlled Iteration	BBC Bite Size		Programming - KS3 Computer Science - BBC Bitesize		
6	Problem Solving	- KS3 Computing Complete Revision & Practice -		Chapter 6 Available from: KS3 Computing Complete Revision		

Scheme of Learning: Year / Computing

2

Networks from

semaphores to the

Internet

3

Programming essentials in Scratch – part I

This unit is the first programming unit of KS3. The aim of this unit and the following unit ('programming 2') is to build learners' confidence and knowledge of the key programming constructs. Importantly, this unit does not assume any previous programming experience, but it does offer learners the opportunity to expand on

The main programming concepts covered in this unit are sequencing, variables, selection, and count-controlled iteration. All of the examples and activities for this

4

Modelling data using

spreadsheets

5

Programming essentials

in Scratch – part II

6

Using media – Gaining

support for a cause

Topic Sequence:

Topic Overview:

Messaging in digital

media

their knowledge throughout the unit.