Scheme of Learning: Year & Computing									
Topic Sequence:									
	1	2	3		4		5	6	
C	omputer Systems	Representation	Developing for the Web	Intro to	Python	Heroes of	Computing	Mobile App	
Topic Overview:									
In a world where there's an app for every possible need, this unit aims to take the learners from designer to project manager to developer in order to create their own mobile app. Using App Lab from code.org, learners will familiarise themselves with the coding environment and have an opportunity to build on the programming concepts they used in previous units before undertaking their project. Learners will work in pairs to consider the needs of the user; decompose the project into smaller, more manageable parts; use the pair programming approach to develop their app together; and finish off by evaluating the success of the project against the needs of the user. Links Year 7 Scratch Programming 1 and 2, Year 8 Python Programming, GCSE Computing Unit 1 — Computational Thinking and Unit 6 Programming									
Lesson Sequence:									
Lesson 1: App for That! - In a world where there's an app for every possible need, this unit aims to take the learners from designer to project									
mar envi Less starr will Less and gam Less learr progr to irr Less The time	manager to developer to create their own mobile app. Using App Lab from code.org, learners will familiarise themselves with the coding environment and have an opportunity to build on the programming concepts they used in previous units before undertaking their project. Lesson 2: Tappy Tap App - Learners will be introduced to the concept of event-driven programming and applying the paradigm to the app they started to develop last week. They will be shown the coding environment and the first steps will be taken using live coding, in which the learners will write their code alongside the teacher. Lesson 3: School Lab Studios - Learners will be presented with an app that has three errors. They will have to open the app to attempt to spot and fix the errors. Next, the learners will work on the score screen of the Tappy Tap App, to make it display the user's score at the end of the game. Lesson 4: User input - learners will start by thinking about how user input is captured and processed, before being given the challenge of adding code to a prebuilt app to deal with user input. Learners will then decompose the app project that they started last lesson into more manageable steps. Lesson 5: App development - The main focus of this lesson is to spend most of the time developing the learners' app projects further. The learners will start by recapping their work and what they planned in the previous lesson. They will then spend time building their apps using pair programming. Towards the end of the lesson, the learners will ask classmates to review their apps in order to get feedback that they can respond to in the next lesson. Lesson 6: Project completion - This is the final lesson of the unit and the focus will be on completing and evaluating the learners' app projects. The lesson starts with an activity to remind the learners about problem-solving and debugging, followed by a short activity to help them plan the time that they have left in the lesson to complete their app. National curriculum links Design, use, a								
Create, reuse, revise, and repurpose digital artefacts for a given audience, with attention to trustworthiness, design, and usability									
Company of Lagrange					Topic Resources:				
Sequence of Lessons:			Knowledge 8.6 Mobil Map: Developm			Any other Resources:	App Lab		
1	Lesson 1: App for That!		Assessment:						
2	Lesson 2: Tappy Tap	Арр		Knowledge:		10 Multiple Choice questions			
3	Lesson 3: School Lab	Application o Knowledge:			Learners design and develop a mobile app				
				Supportive Reading:					
4	Lesson 4: User input	:		App Lab @ Gode.org		App Lab Code.org			
5	Lesson 5: App develo	opment		App Lab Tutorial		Code.org Tic Tac Toe - Build Your First Game in App Lab Even If You Have Never Coded Before - YouTube			
6	Lesson 6: Project cor	mpletion		KS3 Computing Com plete Revision & Pra		Chapter 6 & 7 Available from: KS2 Computing Complete Position & Practice CGP			