

	KIAN, Seneca, Bitesize, CraignDave vids	
<ul style="list-style-type: none"> Ensure you can interpret algorithms, complete algorithms and interpret algorithms 	OCR textbook, Independent ILF, KIAN, Seneca, Bitesize	
<ul style="list-style-type: none"> Algorithms using trace tables 	OCR textbook, ILF, KIAN, Seneca, Bitesize	
<ul style="list-style-type: none"> Write Algebraic expressions 	OCR textbook, ILF	
<ul style="list-style-type: none"> Ensure you understand the use of all logical and mathematical operators including Exponentiation, Mod and Div. 	OCR textbook, ILF, KIAN, Seneca, Bitesize	
<ul style="list-style-type: none"> Use of Sequence, Selection, Iteration in programs 	OCR textbook, ILF, Python W3C, Your python programs	
<ul style="list-style-type: none"> Use of sub-programs (functions and procedures) 	Python W3C, ILF, KIAN, Your python programs, CraignDave	
<ul style="list-style-type: none"> Use of 1d and 2d arrays in programs 	Python W3C, ILF, KIAN (data structures)	
<ul style="list-style-type: none"> Know the different data types: Integer, Character, Real (float), String, Boolean 	OCR textbook, Independent ILF, KIAN, Seneca, Bitesize	
<ul style="list-style-type: none"> Know difference between syntax error, logic error, run-time error 	OCR textbook, Independent ILF, KIAN, Seneca, Bitesize, CraignDave	
<ul style="list-style-type: none"> How to use casting in a program 	OCR textbook, ILF, Python W3C	
<ul style="list-style-type: none"> File handling (open, read, append, write, close) 	OCR textbook, ILF, Python W3C, Your python programs	
<ul style="list-style-type: none"> Defensive design and maintainability of programs 	OCR textbook, ILF, KIAN, Seneca, Bitesize, CraignDave	
<ul style="list-style-type: none"> Testing – selecting suitable test data to test programs, completing test plans 	OCR textbook, ILF, Bitesize	
Key skills to practise	Where to find support on how to practise	Tick when complete
<ul style="list-style-type: none"> Practice writing simple programs in Exam Reference Language (pseudocode) 	J277 – programming ERL guide (Independent learning folder)	
<ul style="list-style-type: none"> Practice writing programs as flowcharts using correct symbols (start/stop, process, input/output, decision, sub-process). Clearly draw the symbols and remember to show using arrows the flow of information 	KIAN (Algorithm Design), ILF	
<ul style="list-style-type: none"> Boolean logic - Draw and complete accurate Boolean logic diagrams and logic circuits using AND OR NOT. Complete truth tables related to the logic diagram 	KIAN, ILF, OCR textbook	
<ul style="list-style-type: none"> Ensure you know how to clearly draw the different logic diagram symbols so it isn't ambiguous 	KIAN, ILF, OCR textbook	
<ul style="list-style-type: none"> Practice number conversions – Binary, denary, hex and vice versa. 	ILF, OCR textbook	
<ul style="list-style-type: none"> Practice your Python knowledge from the programming project and other Python programs 	Python visualiser, Your Python programs, Python W3C	
<ul style="list-style-type: none"> Practice writing SQL statements SELECT, FROM, WHERE, ORDER BY 	ILF, OCR textbook, Seneca, KIAN	
<ul style="list-style-type: none"> Draw network diagram (e.g. connecting standalone in a LAN) 	OCR textbook, ILF	