

Year 7 ICT

Learning Programme 4

Reading texts that pupils will study during the learning programme

Loric for LP4 is Initiative

<p>The value we are learning about is Justice and Integrity: Justice-Fair behaviour or treatment Integrity-Being honest and having strong moral principles</p> <p>What will I be learning about in this Learning Programme? During this LP students will build confidence and knowledge of the key programming constructs. The main programming concepts covered in this unit are sequencing, variables, selection, and count-controlled iteration. All of the examples and activities for this unit use Scratch 3.</p> <p>Where have I seen this learning before? Students will use any prior knowledge from KS2 they have on programming giving them the opportunity to expand on their knowledge throughout the unit</p> <p>What could I use it for? This knowledge will be used again during LP5 and also in Year 8 and Year 9 where you will expand on your programming knowledge and explore more languages</p>	CGP KS3 text book, scratch instruction manual
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In LP4.1, I will know:	11/03/24 - (WK 1)	PR Focus	Key Vocabulary	Homework
I will compare how humans and computers understand instructions (understand and carry out) I will define a sequence as instructions performed in order, with each executed in turn I will predict the outcome of a simple sequence and modify a sequence.			Sequence, blocks, subroutine	
In LP4.2, I will know:	18/03/24 - (WK 2)	PR Focus	Key Vocabulary	Homework
I will define a variable as a name that refers to data being stored by the computer; I will predict the outcome of a simple sequence that includes variables; I will make a sequence that includes a variable.			Variable, control flow, outcome, input, process, output	
In LP4.3, I will know:	08/04/24 - (WK 1)	PR Focus	Key Vocabulary	Homework
I will define a condition as an expression that will be evaluated as either true or false; I will identify where selection uses conditions to control the flow of a sequence; I will modify a program to include selection. Extended Task			Condition, expression	
In LP4.4, I will know:	15/04/24 - (WK 2)	PR Focus	Key Vocabulary	Homework
I will create conditions that use comparison operators I will create conditions that use logic operators I will identify where selection statements can be used in a program that include comparison and logical operators.			Comparison operators, logic operators	
In LP4.5, I will know:	22/04/24 - (WK 1)	PR Focus	Key Vocabulary	Homework
I will define and describe the need for iteration; I will identify where count-controlled iteration can be used in a program and implement in a program; I will detect and correct errors in a program (debugging).			Iteration, count controlled	
In LP4.6, I will know:	29/04/24 - (WK 2)	PR Focus	Key Vocabulary	Homework
I will independently design programming constructs to solve a problem (subroutine, selection, count-controlled iteration, operators, and variables); I will apply programming constructs to solve a problem (subroutine, selection, count-controlled iteration, operators, and variables). Extended Task			Subroutine, selection, count-controlled iteration, operators, and variables	
In LP4.7, I will know:	06/05/24 - (WK 1)	PR Focus	Key Vocabulary	Homework
I will continue to independently design programming constructs to solve a problem (subroutine, selection, count-controlled iteration, operators, and variables); I will continue to apply programming constructs to solve a problem (subroutine, selection, count-controlled iteration, operators, and variables).			Subroutine, selection, count-controlled iteration, operators, and variables	
In LP4.8, I will know:	13/05/24 - (WK 2)	PR Focus	Key Vocabulary	Homework
I will define a subroutine as a group of instructions that will run when called by the main program or other subroutines; I will define decomposition as breaking a problem down into smaller, more manageable subproblems; I will identify how subroutines can be used for decomposition.			Subroutine, instructions, decomposition	



Resources to support learning:
Teams page

FFET Award Challenge for this Learning Programme:
Attend an extra-curricular club, represent the academy at an event, attend an enrichment day, receive a subject praise postcard, attend a day trip, attend a head of year breakfast or afternoon tea, achieve 100 positive points on class charts, receive a letter of commendation from SLT, be invited to a wonderful Wednesday, receive a principals letter or be invited to a principals lunch, attend a residential trip, achieve the Duke of Edinburgh bronze award.