

Year 8 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? This LP will cover essential knowledge relating to binary representations. The activities gradually introduce students to binary digits and how they can be used to represent text and numbers. The concepts are linked to practical applications and problems that the learners are familiar with. Where have I seen this learning before? Students will use knowledge from LP1 where they developed their knowledge of computer systems</p> <p>What could I use it for? Students will use this knowledge again in LP5 and also in Year 9</p>	<p>Instruction manuals on how to use graphics software, Instruction manuals on how to use video editing software and Instruction manuals on how to use web development software</p>
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In LP4.1, I will know:	11/03/24 - (WK 1)	PR Focus	Key Vocabulary	Homework
I will list examples of representations; I will recall that representations are used to store, communicate, and process information; I will provide examples of how different representations are appropriate for different tasks.			Representations	
In LP4.2, I will know:	18/03/24 - (WK 2)	PR Focus	Key Vocabulary	Homework
I will recall that characters can be represented as sequences of symbols and list examples of character coding schemes; I will measure the length of a representation as the number of symbols that it contains; I will provide examples of how symbols are carried on physical media.			Sequences, character coding schemes, physical media	
In LP4.3, I will know:	08/04/24 - (WK 1)	PR Focus	Key Vocabulary	Homework
I will explain what binary digits (bits) are, in terms of familiar symbols such as digits or letters; I will measure the size or length of a sequence of bits as the number of binary digits that it contains. Extended Task			Binary digits	
In LP4.4, I will know:	15/04/24 - (WK 2)	PR Focus	Key Vocabulary	Homework
I will describe how natural numbers are represented as sequences of binary digits; I will convert a decimal number to binary and vice versa.			natural numbers	
In LP4.5, I will know:	22/04/24 - (WK 1)	PR Focus	Key Vocabulary	Homework
assessment.				
In LP4.6, I will know:	29/04/24 - (WK 2)	PR Focus	Key Vocabulary	Homework
I will convert between different units and multiples of representation size. Extended Task			Conversion, digital devices	
In LP4.7, I will know:	06/05/24 - (WK 1)	PR Focus	Key Vocabulary	Homework
I will provide examples of the different ways that binary digits are physically represented in digital devices.			representation	
In LP4.8, I will know:	13/05/24 - (WK 2)	PR Focus	Key Vocabulary	Homework
I will apply all the skills and knowledge I have developed in this unit.				
Resources to support learning:				
Teams page, BBC Bitesize				
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.				

PRT Task 1

PRT Task 2