



GCSE COMPUTER SCIENCE

GCSE (8520)

UNIT 3.1



3.1 Number bases

Content	Additional information
 Understand the following number bases: decimal (base 10) binary (base 2) hexadecimal (base 16). 	
Understand that computers use binary to represent all data and instructions.	Students should be familiar with the idea that a bit pattern could represent different types of data including text, image, sound and integer.
Explain why hexadecimal is often used in computer science.	

SPECIMEN MATERIAL 2015

0 1 . 3	A student's answer to the question "Why is hexadecimal often used instead of binary?" is shown in Figure 2 .
	Figure 2
	Because it uses fewer digits it will take up less space in a computer's memory.
	Explain why the student's answer is incorrect. [2 marks]
-	

SPECIMEN PAPER 1 SUPPLEMENTAL MATERIAL 2015

1 (c)	Give one reason why programmers often use hexadecimal, instead of binary, to represent numbers.
	[1 mark]