

BRIDGING THE GAP

COMPUTER SCIENCE



Course Title	Examination Board & Woh Addross
A-Level computer science	AQA <u>Inters.//www.aqa.org.uk/subjects/computer</u>
	Science-and-it/as-and-a-ievel/computer-science-7510-
Units/Topics Studied:	
computer organisation and architecture, databases, communication and networking, functional programming, big data, consequences of using computing and theory of computation.	
Bridging Task	
Part One:	
 Carry out some research into the following topics. Use the Cornell notes system to record your findings: History of the internet The impact of Computing on Society Why are there so many programming languages? The history of artificial intelligence What is robotics? How does the CPU work? The impact of Computing in one of the following areas: medicine, design, engineering, manufacturing, retail, air traffic control, media or gaming. Here is a link to some information about Cornell note taking if you have not used this method before: Cornell note taking – Craig 'n' Dave Students (craigndave.org) 	
How many days have you been alive?	Computing Timeline
Create a program that would allow anyboo	dy to computing, including any key discoveries or
enter their birth date and correctly calcula	inventions. Extend you timeline to show how you
the number of days they have been alive.	think computer science might develop over the
The user should be able to enter their date	e of next 50 years. <i>Reference any sources that you use</i>
birth.	to help you.
Customer ID Generator	Binary Conversion Program
Create a program that asks the	Create a program that will convert a bipary number
user to input.	to decimal. The user should be able to enter a
Their first fidfile Their last name	binary number and then be provided with the
 A date of their choice in the formation 	decimal equivalent.
DD/MM/YYYY	Can you also allow your program to convert from
Your program should then output a custor	ner decimal to Binary?
ID using the date in the format YYYYMMD	D,
the first three letters of the surname, the	first
name and then the length of the first nam	e.
All letters should be in capitals.	
e.g. John Smith, 27/05/2017 would give	
20170527SMITHJ4	