

**SOCIAL SCIENCES: Computer Science NAME:**



**BELOW IS YOUR MOCK FEEDBACK**  
**Rate yourself on your knowledge in this area to focus your revision on your areas of improvement**

**RED= AREA OF WEAKNESS**  
**ORANGE= NEEDS FURTHER DEVELOPMENT**  
**GREEN = SMASHED IT**

<b>Novice</b>	<b>Developing</b>	<b>Secure</b>
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**OCTOBER PPE**

1	State two reasons why the programmer would choose to write their code in a high level language			
2	State two features of an interpreter and explain why this is advantageous to the programmer.			
3	The interpreter produces machine code. What is meant by the term, 'machine code'			
4	Describe what an assembler is for.			
5	Label the three types of code illustrated			
6	State three features of an integrated development environment			
7	Describe two advantages of using a compiler instead of an interpreter.			
8	State the capacity in gigabytes of a 2TB portable hard drive			
9	Show how the addition of the denary numbers 30 and 20 is performed in binary			
10	Explain how an overflow occurs when adding two 8 bit binary numbers			
11	Show the result of a 1 bit binary left shift on the number: 00101100			
12	Convert the denary number 128 to hexadecimal. Show your working.			
13	Convert the hexadecimal number 7E to denary. Show your working			
14	James is a graphic designer. He has created an icon set of 20 icons for a project. The icons are uncompressed images of 96x96 pixels in 8 bit colour. Describe how the approximate file size can be calculated for the icon set.			
15	State how many different colours can be stored using 8 bit colour.			
16	James has also created a video clip to promote his work which is uploaded to a popular video streaming service. MP4 compression is used to store the video clip on the hard disk of the server. State what is meant by the term "compression".			
17	Explain two advantages of the streaming service using compression.			
18	Explain why an online software distributor cannot use the same type of compression as the video streaming service			
19	When a video clip is created, sound is sampled from a microphone. Describe what is meant by the term, "sound sampling".			
20	State what is meant by the term, "sampling frequency" and describe its effect on the quality of the sound			

SCORE OUT OF 60 -

PERCENTAGE -

GRADE ACHIEVED -