


Y10	Monday	Tuesday	Wednesday	Thursday	Friday
Task 1	Draw a diagram showing the components of a Computer System.		When talking about Storage, what is meant by the term Volatile? Give an Example.	If a computer has a 3.6 GHz Single Core Cpu... What will the relative increase in speed be if it was replaced by a 1.8GHz Quad Core CPU? Why?	List the components of the Von Neumann CPU architecture. What is Moore's Law?
Task 2	If it takes 8 bits to store an ASCII character... How many bytes does the word 'PROCESSOR' take to store?	Explain what the following CPU parts do? Accumulator Program Counter ALU MAR MDR	Unscramble these Computer Security Anagrams: GOLDFISH USER RUN WORDS SPA ENCLOSING GENIE AIR	Put the following units of storage capacity in size order Smallest to Largest: MB, bit, KB, nibble, GB, byte, TB.	Explain how the CPU and RAM work together. You could use a diagram if you think that would help you.
Task 3	Bullet point the steps in the Fetch - Decode - Execute Cycle.	What is meant by the following terms? Use examples to help you: Phishing Malware Denial of Service Brute Force	Define the 3 different storage technologies, give examples of their use.	Identify and explain the following Programming Constructs? S_----- S_----- I_-----	With regards to capacity, durability, speed, portability. Compare 3 Storage devices.
Task 4	What is meant by the term Physical Security?	What are the main differences between RAM and ROM?	Define Virtual Memory?	What is Cache? Explain its purpose...	Give 5 rules that people should follow when creating passwords.
Task 5	Suggest 3 ways of upgrading the performance of a Computer, explain why your suggestion will improve performance.	Write a short program in python that incorporates: A loop (For or While) An If statement 2 Variables	Define the following words: variable opcode operand bus register	Using examples, what is meant by the term CPU cores? How do they affect the performance of a CPU?	Using a flowchart or pseudocode write an algorithm for a program that prints all the numbers between 1 and 100.