

SUMMER TASKS 2020



Task #1

Research and find out what the following are*:

1. Processors
2. Motherboards
3. Storage (hard drive, solid state, flash, internal, removable, SAS, SCSI, portable, Cloud)
4. Ports (USB, Firewire, SATA, Network, Fibre Channel)
5. Memory (RAM, ROM, cache)
6. Expansion cards (sound, network, graphics, storage controller, fibre channel)

Task #2

Research and find out what the following protocols are*:

1. IP
2. TCP
3. UDP
4. SMTP
5. FTP
6. HTTP
7. SNMP
8. ICMP
9. POP

Task #3

Choose **2** of the following:

1. Research data analysis tools that could be used by individuals and small organisations.
2. Research the legislation/regulation relating to information security and data protection in the UK and overseas.
3. Research the ways in which charities use web sites to raise awareness of their work.
4. Research how and why different information formats and different information styles are used on the World Wide Web.
5. Research how the quality of information can affect organisations.
6. Research how organisations handle personal data, the ways in which anonymization can be used to maintain privacy and the dangers of re-identification.

Task #4

Examine the **ethical** implications of the use of mobile technologies.
(You need to write more than 1000 words on this relevant topic and include any references of sites that you may have used. Try and include some of YOUR opinions as you may hold different views.)

Task #5

Explain the concept of the IoE (**I**nternet **o**f **E**verything)

Help and advice:

For Tasks 1, 2 and 3 - In a document (Word, Publisher, PowerPoint, email) explain what each are and what they do. Also provide an image to illustrate your research. Include a reference for the web sites that you may have used.

For Task 4 and 5 – Use a Word document. Minimum word count = 1000 words (not characters, not spaces etc...)

When completed email ALL the documents to matthew.jones@nobel.herts.sch.uk . In the subject line of your email type in 'Summer tasks'.