Lucton School ICT GCSE REVISION GUIDE

Useful sites:

http://reviseict.co.uk/revision

www.bbc.co.uk/schools/gcsebitesize/ict

www.teach-ict.com/xml/dbgcse.php

If you have any questions then email me at **r.northwood@luctonschool.org**

**Revision Guide Booklet**

**Please answer the following Questions. They are in sections to help you organise your revision.**

**Section 1 - Lets Communicate**

1. List two features of a mobile phone that could make it easier to use (2)
2. What does the term ‘Bluetooth’ mean? (1)
3. What does the term ‘WiFi’ mean? (1)
4. What is the difference between quad-band and tri-band? (2)
5. Explain one way of transferring data between two mobile phones (1)
6. What are TWO uses of GPS on a mobile phone? (2)
7. What is GPS Tagging and why is it useful? (2)
8. Explain one way of disposing of an old mobile phone (1)
9. What factors should be considered when designing a new mobile phone? (4)
10. What does the term ‘wireless enabled’ mean? (1)

TIP: Make sure you are clear on the definitions of these - you need to prove to the examiner that you FULLY understand the difference

1. Describe how IMAP4 differs from POP3 (4)
2. Can you explain the following terms: (7 x 1)
   1. Virus
   2. Spyware
   3. Cookie
   4. Spam
   5. Phishing
   6. Hackers
   7. Identity Theft
3. State TWO reasons for having a wireless home network (2)
4. Explain how you can protect your computer from the dangers associated with being connected to the internet? (4)
5. What is meant by the term ‘Digital Divide’ ? (2)
6. Explain the implications of the digital divide on the following areas: (4 x 2)
   1. The Economy

TIP: Make sure you are clear what is meant by the term ‘Digital Divide’ before answering this question. Maybe **plan** out your answer first.

* 1. Education
  2. Our Culture
  3. Socially

1. Can you list THREE ways of communicating online? (3)

1)

2)

3)

1. Can you list TWO advantages and TWO disadvantages of communicating online? (4)
2. Using pirated software, which is not licensed, is a crime. What is the name of the current legislation which makes it illegal to use unlicensed software? (1)
3. Name TWO hardware devices that are essential when making a VoIP call (2)

TIP: Think about what the **VITAL** components to making the call are.

**Section 2 – Shopping Experience**

1. What are TWO reasons why a company might prefer to be online instead of on the high street? (2)
2. From a customer’s point of view, what are TWO advantages and TWO disadvantages to shopping online rather than a shop? (4)
3. Give ONE security concern that a customer might have when purchasing items online. (1)
4. Identify TWOfeatures of a strong password. (2)
5. List TWO things you must do to keep your password safe. (2)
6. What is a ‘captcha test’ and why is it used? (2)
7. Identify TWO ways that an online shopper can be sure that they are using a secure site. (2)
8. John buys a computer game from an online store. His details are now stored in the shops database. Give TWO reasons why the online shop stores his details. (2)

TIP: Make sure your answer is a **benefit to the shop not to the customer**

1. What is a cookie? (1)
2. Give TWO reasons why you should consider deleting your cookies from your computer.(2)
3. Why would somebody choose to pay for goods online using a ‘Third party Payment Processor’, rather than using their own credit/debit card? (2)

**Section 3 – Entertain Me**

1. The following passage describes what you should consider when buying a new laptop. (5)

Look at the size of the to see how much data you will be able to save. The type of processor indicates the you can expect. Also check the to see which peripheral devices you will be able to use, and the potential for as many as you want to improve its performance in the future. Check the offered as you may have problems with the laptop.

**HARD DISK DRIVE**

**UPGRADING**

**PERFORMANCE**

**CONNECTIVITY**

**SUPPORT**

1. What is the difference between hardware and software? (4)
2. The bandwidth and latency of the internet connection are both important factors when playing online games.

Explain why both are important. (4)

1. State TWO advantages of using consoles, rather than PCs, for gaming. (2)
2. Apart from gaming, give TWO other uses for games consoles. (2)
3. John buys a new HD games console. State ONE other piece of equipment he will need to play games in HD. (1)
4. John wants to play his new games against other gamers around the world. What MUST he have for this to be possible? (1)

TIP: What is the **VITAL** component?

1. List TWO benefits of using a network cable rather than a wireless connection for online gaming. (2)
2. State FOUR ways that playing computer games could be beneficial to somebody. (4)
3. State TWO things John can do to avoid RSI when playing computer games. (2)
4. List THREE ways that having access to the Internet could enhance a family’s daily life. (3)
5. List TWO ways to prevent unauthorised access to a router. (2)

**Section 4 – On the Move**

1. There are different ways of transferring data between devices. (5)

Most devices can be connected with a USB cable. The letters USB stand for . Small devices can use a wireless method called . Digital cameras usually store images on an card which can be removed and placed in a laptop or Netbook.

1. State TWO advantages and TWO disadvantages of ‘Cloud Computing’ (4)
2. What does GPS stand for? (1)
3. Complete the following sentences about the GPS system. (5)

GPS is a - based navigation system. GPS relies on a network of satellites. The GPS receiver compares the a signal was transmitted by a satellites with the time it was received. The time tells the GPS receiver how far away the satellite is. With distance measurements from at least satellites, the receiver can determine the user’s position

**SATELLITE**

**DIFFERENCE**

**THREE**

**TWENTY-FOUR**

**TIME**

1. John has just bought a new digital camera which has GPS tagging as an extra feature. State what GPS tagging does. (2)
2. State why GPS tagging is a useful feature (1)
3. Match the following uses of the GPS with the correct definitions (4)

|  |  |  |
| --- | --- | --- |
| SAT NAV |  | ATTACHING EXACT GEOGRAPHICAL COORDINATESTO AN IMAGE |
| GPS TRACKING |  | A DEVICE USED IN A MOTOR VEHICLE TO GIVE ROUTE DIRECTIONS |
| GEOTAGGING |  | A GAME WHERE PEOPLE USE GPS TO FIND HIDDEN CONTAINERS |
| GEOCACHING |  | FOLLOW THE LOCATION OF A CAR OR DELIVERY VAN AT ALL TIMES |

1. John has arranged to meet his friends in town but is running late. Other than calling them, state ONE method of communication he could use to let them know. (1)
2. John has just bought a new mobile phone that has WiFi. What is meant by WiFi? (1)
3. His new phone also has a memory card for extra storage. Give TWO other uses for this memory card. (2)

**Section 5 – Smart Working**

1. Ergonomics is the science of designing equipment that reduces the user’s fatigue (tiredness), discomfort and injury.

True of False? (1)

1. Explain how the following can be computer related health issues: (2)
   1. Back pain
   2. RSI
2. What is a ‘Dongal’ (1)
3. State ONE benefit and ONE limitation of mobile broadband. (2)
4. Complete the following paragraph about mobile broadband. (5)

Mobile broadband allows digital devices to connect to a Internet connection over a wide geographical area., without the need for wires. It relies on the network. Modern mobile phones have technology that allows them to pick up 3G signals built in. Other devices require a , a small piece of hardware that connects to the device and picks up and 3G signals.

**3G**

**DONGAL**

**SPEED**

**HIGH**

**BLUETOOTH**

1. Identify TWO features of a strong password. (2)