



**INFORMATION AND COMMUNICATION TECHNOLOGY**

**YEAR 11 – Revision Worksheet**

**Q1.** Mitch enjoys playing computer games.

(a) Mitch buys a new HD games console.

(i) State one other piece of equipment he will need to play games in HD.

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(ii) Mitch thinks that games consoles are better than PCs for gaming.

State two advantages of using consoles, rather than PCs, for gaming.

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(iii) Modern games consoles are multi-functional devices.

Apart from gaming, give two other uses for games consoles.

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(b) Mitch and Stevie like to play games online with other users.

Explain how playing games online can help them develop social and other skills.

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(c) Mitch asks Lee to copy a game for him.

(i) State why Lee must not do this.

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(ii) Many gaming companies allow users to download games straight to their console.

Give one advantage to the company of allowing this.

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(iii) Explain one environmental benefit of downloading games rather than buying them on disk.

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(d) Discuss how the use of digital devices can impact on people's health and wellbeing.

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**Q2.** Stevie downloads music from the internet.

(a) She finds this site, which offers free music downloads.





(i) Stevie should not download songs from this site because:

- A The songs take too long to download
- B It is likely to be an illegal download site
- C The file sizes are very large
- D The site requires a login

(ii) State one possible drawback of downloading from this site.

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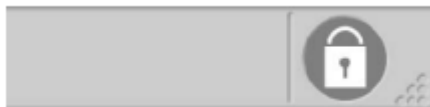
(iii) Stevie needs to protect her computer from unsafe downloads.

State one way she can do this.

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Stevie logs into a site to buy some music. She sees this symbol in her browser.



(i) What does this symbol mean?

- A The website is locked and cannot be used
- B It is not safe to use the website
- C Data on the site is encrypted
- D There might be a virus on the website

(ii) State one other way that browsers display security information.

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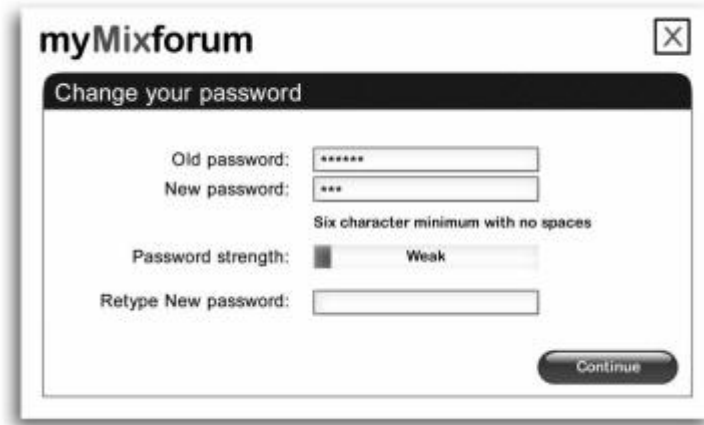


- (c) Stevie produces her own music tracks. She uploads her music to a forum site.  
(i) Give two reasons for doing this.

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Sometimes, when she logs on, the site asks her to change her password.



The site says that the password should be at least six characters long, with no spaces.

- (ii) Identify two other features of a strong password.

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- (iii) List two things Stevie must do to keep her password secure.

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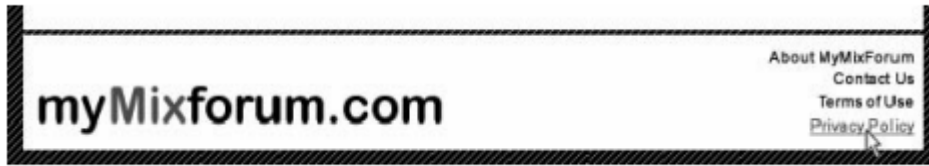
(d) A user posts an offensive message about Stevie's music on the forum.

- (i) What should Stevie do?

- A Send an offensive message back
- B Close her account on the forum
- C Remove her music track
- D Report the user to the site



(ii) The forum has a 'privacy policy'.



Explain the purpose of a privacy policy.

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**Q3.** Many employees use the internet for work.

Discuss the impact of the use of the internet on how people work.

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**Q4.** 'The increased availability of mobile digital devices has had a positive impact on how young people use their free time.'

Make a reasoned argument on support this statement.

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**Q5.** Discuss the advantages and disadvantages of different social networking sites

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**Q6.(a)** Julian has a range of software installed on his PC.

These include:

- an operating system
- office productivity tools
- web authoring software
- anti-virus software.

(i) Office productivity tools and web authoring software are examples of the same type of software.

Name this type of software.

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(ii) An operating system is a type of systems software.

State **one** other type of systems software.

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(iii) Explain one reason why it is important that anti-virus software is kept up-to-date.

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(b) Julian's PC has a 2.3 GHz processor.  
Explain what 2.3 GHz measures in this context.

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(c) Julian's PC has two types of memory, RAM and ROM.  
The program used to start up his PC is stored in ROM.  
Explain one reason why this program must be stored in ROM.

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(d) Julian has a visual impairment.  
He has used system settings to enable narrator and speech recognition facilities.  
This makes his computer easier to use.  
Identify two other system settings that could be adjusted to make a computer easier to use for someone with a visual impairment.

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(e) Julian takes regular breaks to reduce the likelihood of headaches.  
Identify two other health problems that might arise from using a computer for long periods of time.

For each health problem, state how, other than by taking regular breaks, the problem can be reduced.

Problem 1

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Solution

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Problem 2

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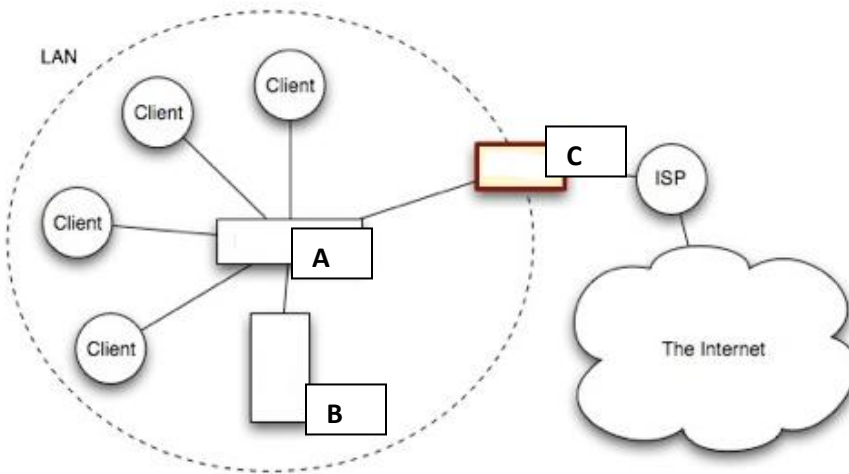
Solution

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**Q7.** The figure shows different devices to make up a network.

a) Label the following:



A: .....

B: .....

C: .....



b) A firewall is a device, or a piece of software that is placed between your computer and the rest of the network (where the hackers are!) If you wish to protect your whole LAN from hackers out on the Internet, you would place a firewall.

A firewall blocks unauthorised connections being made to your computer or LAN. Normal data is allowed through the firewall (e.g. e-mails or web pages) but all other unauthorised data is blocked.

Redraw the picture given above to show the firewall and label clearly. (1)

**Q8.** Filter software can be used to monitor individual's computer usage.

a) Explain how features of filter software can be used by the admin in a school network to control access of students.

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b) The head teacher of a school is concerned that students may be hacking into the exam scores database to change their marks.

Other than passwords, list any three ICT methods that could be used to prevent this from happening.

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c) Some people find it difficult to access information on the web.

i) State what features could be used on a website to make it more accessible to partially sighted people.

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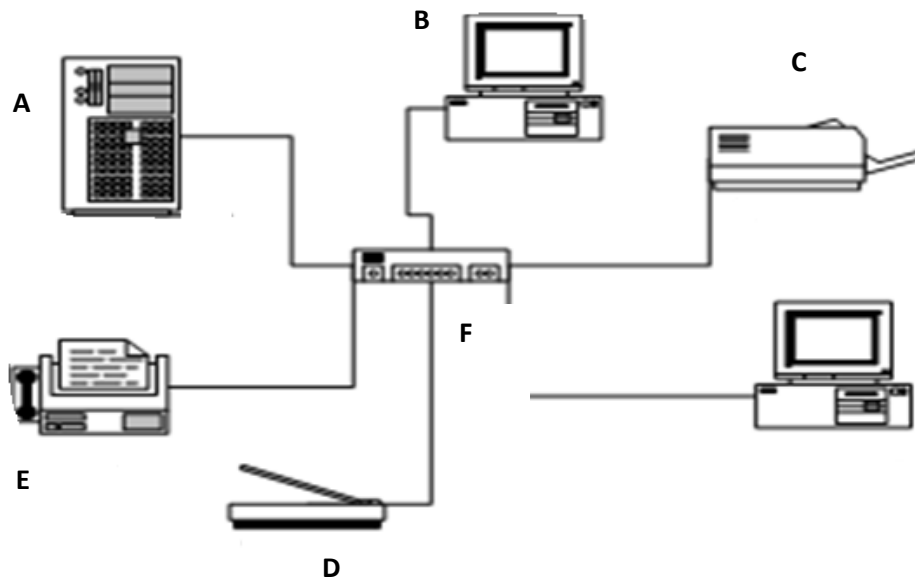
ii) State what features could be used on a website to make it more accessible to deaf people.

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**Q9.** Pat and John have created a network to connect their devices.

**(a)** The diagram shows the network.

**Network map of Wired Network Connection**





i) Identify the devices labelled 'A', 'B', 'C', 'D', 'E' and 'F'

**A:** .....

**B:** .....

**C:** .....

**D:** .....

**E:** .....

**F:** .....

(ii) All devices connected to the network are identified by name.  
State **one other** way a device on the network can be identified.

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**(b)** Give **three** benefits to Pat and John of using their home network.

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**(c)** Home networks can use both wired and wireless connection.

(i) Identify **two** advantages of using a wired rather than a wireless connection.

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(ii) Identify **one** disadvantage of using a wired rather than a wireless connection.

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**(d)** Computers connected to the internet are at risk from malicious actions.

Identify **two** malicious actions that could result in data corruption.

For each malicious action, state how the risk can be reduced.

Malicious action 1: .....

How to reduce the risk: .....

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Malicious action 2: .....

How to reduce the risk: .....

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**Q10.** Many students at the school have mobile devices such as laptops or tablet computers.

Some staff believes that using these devices enhances learning, others disagree.

Discuss the advantages and disadvantages of allowing students to use mobile devices in the school.

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