

Unit 3 - ICT and Society

This report covers 5 technologies I use socially, personally and for school. I have described my most used technologies and evaluated if the technology meets my needs.

I have emboldened all the technologies I use regularly.

Categories of Technologies

Internet	eg	email, www, chat rooms
Internet Technologies	eg	Modem, ISDN, ADSL, Broadband
Communication	eg	Mobile phone , video phone, video conferencing, information points
Entertainment	eg	Games console, digital TV, MP3 player , media station
Mobile Access Device	eg	Laptop, PDA, wi-fi
	eg	Touch screen, switch, keyboard , concept remote controls, hearing aid
PC Technology	eg	Software, hardware
Data Capture	eg	Digital camera, voice recorder, scanner, CCTV
Control and Monitoring	eg	Burglar alarm, CCTV, GPS, central heating control
Storage media	eg	DBD, minidisk
Financial Transactions	eg	ATM, EPOS
Reprographics	eg	Photocopier , microfiche

Internet

World wide web

Specifications

AOL Broadband

Telephone line

ASDL filter

Mouse

Keyboard



Why I need

- To download music/films/videos off web pages. This meets my needs because there are millions of web pages that I can download my music, ect easily.
- To go on games. This meets my needs because there are thousands of free games on the Internet that are easily found as well.
- To keep up with current affairs by going on web pages and finding out what is happening. This meets my needs because I use the Internet provider called AOL and the AOL homepage has a link to current affairs that is easy to find and is also quick. I might also need to keep up with current affairs for my homework so I can have discussions in school on recent events that have happened.
- To shop. To compare prices on different web pages and save money by finding the cheapest item I want to buy. This meets my needs because I can save money and compare the goods because of the pictures.
- To do research for my homework. This meets my needs because I can easily find the information I need by going on the AOL search engine and typing in the heading to find the information I need.

Advantages

- I can get up to the minute information on current affairs because web pages are updated all the time
- I can download music for free on some web pages so it saves me time and money because I don't need to go to a shop and buy a CD
- I can watch videos for free saving me money
- I can put pictures on web pages for my friends to go on and then they can save them on to their computers. This will also help my schoolwork because I can put pictures that are to do with school on their as well

- I can put videos that I have made myself on web pages for my friends to go on
- I can sell things on web pages like eBay and make money
- I can research information for my homework. This is an advantage because I don't have to go to the library to get information
- I can download pictures from the web pages, which help me present, my work better. This is good for schoolwork because it looks better than pictures glued on. I can crop the pictures and place them wherever I want, I can also zoom in an out, which looks a lot better.
- It can be accessed easily in places like internet cafes

Disadvantages

- Its expensive per month to pay for broadband
- Need to have a computer which is expensive
- In some cases hard to use
- I can spend to long on the web pages
- I can sometimes find too much information than I need
- To go on web pages the equipment needs updating sometimes and can cost a lot of money
- There are too many pop up sites
- There are too many pornographic sites
- The computer can get viruses via websites

Evaluation

Now because I can use web pages it can save me a lot of time and effort because I don't have to go to the library and I can find all the information I need much quicker from the websites available. I can also download pictures and articles I need which help me present my schoolwork better. The Internet affects my life because it saves me a lot of time; it helps me with work because I can research information on the Internet, which is a lot faster than looking through books. The Internet

also keeps me up with current affairs, which gives me more to talk about and discuss in school.

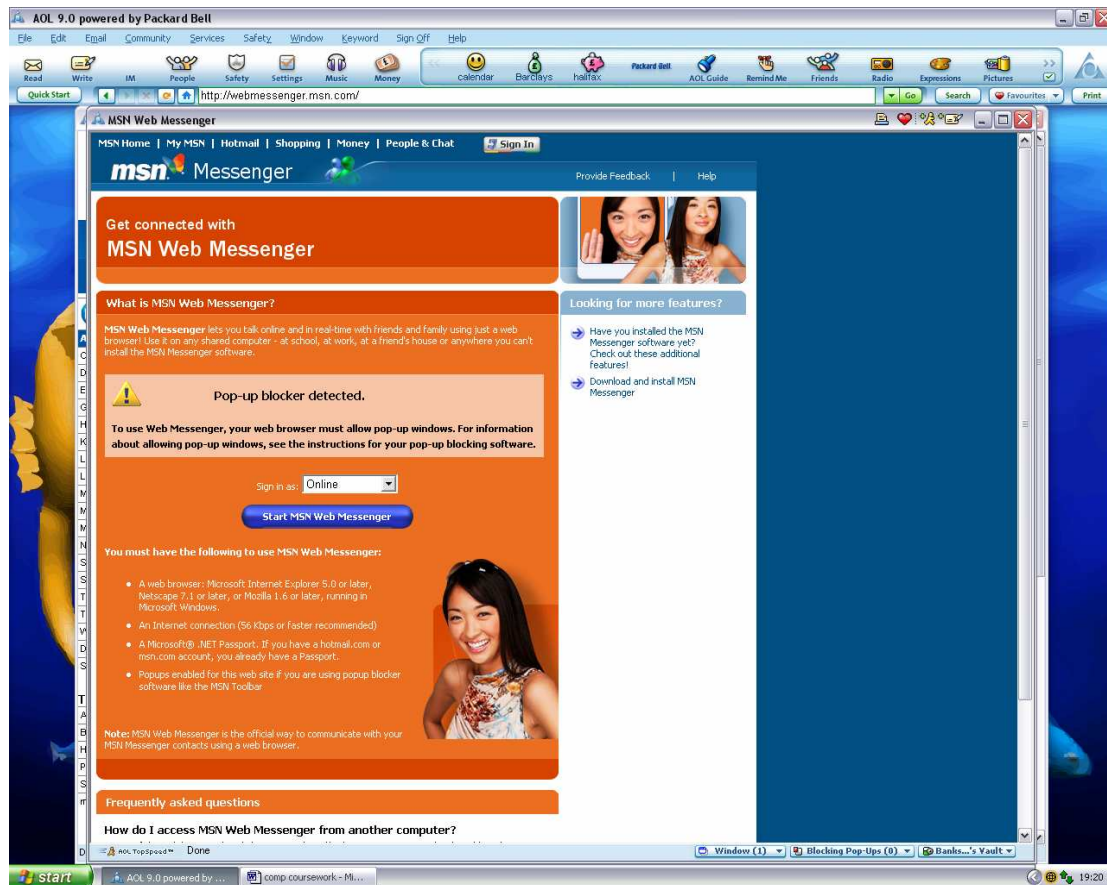
I need web pages mainly so I can do my schoolwork.

Chat rooms

Specifications

Internet provider

MSN messenger



Why I need

- I need MSN messenger to speak to my friends this meets my needs because I can speak to them easily and can discuss homework if I miss what I needed to do in class.
- I need to send pictures and documents, this meets my needs because I can easily send pictures and I can transfer documents that could be schoolwork or

homework off my friends that will give me an idea of what to do.

- I need to send and receive e-mails, this meets my needs because I have my own e-mail address and don't have to use my parents Email address.
- I regularly use instant messaging. This meets my needs because I can talk to my friends and ask them about work.

Advantages

- It is free to use
- I can socialise with my friends without going out
- I can speak to people anywhere in the world.
- As soon as I send a message they receive it instantly
- I can speak to people with similar interests as myself
- It is a safe way of talking to people you don't know
- I can see people while they are talking via a web cam and I can hear people if they have a microphone
- If I am stuck on my homework or need help from my friends I can go on MSN messenger and ask them for help

Disadvantages

- Viruses can be downloaded which can cause problems with my PC
- I don't always know who I am talking to and unknown people can be dangerous
- I cannot always get connected and get disconnected while speaking
- Microphones and web cams can be expensive.
- A computer and internet access are needed to use it, both of which can be expensive
- It can become addictive

Evaluation

I need chat rooms so I can speak to my friends and it helps me relax. I also need it so I can send and receive music and don't need to go out so much. I can keep in touch with my friends later in the evening. I can keep in touch with people who do not live locally and I do not get to see very often. I can chat to several people at the same time, without the cost of a phone call and regardless of the distance.

I use this ICT equipment for social use only to keep in touch with my friends.

Communication

Mobile Phone

Sony Ericsson K700i



Specifications

Brand - Sony Ericsson

Talk time - 480 mins

Weight - 3.7 oz

Networks - Orange

Connectivity - Bluetooth, USB

Camera Type - Digital video camera

Camera resolution - VGA (640 x 480)

Digital Zoom - 4x

Display type - Colour Screen

Number of colours - 18 bit
Display resolution - 176 x 220
Ring tone type - Polyphonic, real music
Integrated memory size - 40 mb
Max memory card size - 1 Gb
Data service - GPRS,EGPRS (EDGE)
Messaging protocols - EMS,SMS,MMS
Email WAP protocol - WAP 2.0
Width - 1.8 inches Depth - 0.7 inches

Why I need the Phone

- I need the phone for phone calls. This meets my needs because I can phone people from any where instead of having to stay at a normal landline.
- I need the phone for going on the Internet. This meets my needs because I can find out information about current affairs from where ever I am instead of having to use a static computer.
- I need the phone for text messaging. This meets my needs because I can send a short message for a small amount of money instead of ringing someone which is expensive if I just want to say a small thing
- I need the phone so I can take my own pictures or films on the camera/video camera. This meets my needs because I don't have to buy a big and expensive video camera when I have one on my phone which is small and good quality
- I need the phone for voice recording. This meets my needs because I can record music or I can record my own or other peoples voices
- I need the phone so can transfer files via Bluetooth. This meets my needs because I can easily and quickly send files using no wires or not even being in the same room as I am transferring to.
- I need the phone because it has an alarm clock, which will get me up in the morning. This meets my needs because it

is reliable and it always works even when my phone has no battery.

- I need the phone so I can store music. This meets my needs because I don't have to waste money buying an mp3 player when I can store the music on my phone and I won't have to carry a phone and a mp3 player
- I need the phone so I can play games. This meets my needs because I can play games wherever I am instead of using a Playstation.
- I need the phone so I can listen to radio. This meets my needs because I can listen to the radio when I am anywhere instead of on a stationary stereo

Advantages

- I don't need to stay near a static phone - Always able to get hold of
- I can go on the Internet anywhere
- I can download things off the internet to my phone
- I can keep up with current affairs and find things out wherever I am
- I can find information for my homework
- I can send text messages to save on cost of call and communicate without having to speak to someone
- I can send videos or pictures in a message.
- I can play games in spare time
- I can exchange pictures between phones on Bluetooth
- I am able to contact my parents in an emergency
- I can use it to store names and addresses
- I can set reminders for events and birthdays
- I can listen to music anywhere on my phone which is smaller than a radio. There is no need for an MP3 player.
- It can be used with headphones
- I can use music I have stored or recorded and use as a ring tone so I don't have to buy them
- I can record sounds so no need to take notes
- It is lightweight, compact and easy to carry

- I can use the stopwatch to time my running
- I can take pictures and videos for reminders or information and store them on the phone
- It can be cheap to run
- I can connect to computer and store pictures I have taken

Disadvantages

- It can be expensive on pay as you go
- It is easy to lose
- Needs regular charging
- Not very sturdy
- Advertising text messages
- Easy target for thieves
- Opportunity for bullying (happy slapping)
- Can sometimes lose signal
- Small screen size
- Sometimes there are too many functions which can be confusing to use
- Always available!

Evaluation

I think my mobile phone is a good phone because the features it has I use most days of the week. The best features are that I can use my phone anywhere so I don't have to stay in one place to make phone calls.

Another good feature of my mobile phone is that I can go on the Internet and keep up with current affairs wherever I am. Another feature is that I can save money by text messaging instead of making a phone call.

I mainly use my phone for social use to communicate with my friends, sharing pictures and text messaging.

Entertainment

Games console - Play station 2



Equipment specifications

Dimensions: 230mm (W) x 405 mm (H) x 422mm (D) (9 1/8" x 16 1/8" x 16 5/8")

Weight: Approximately 13 kg (28 lbs. 8 oz.)

Operational Modes: "TOOL" (development environment) mode
"WS" (workstation) mode

CPU EE (Emotion Engine™)

Clock Frequency: 294.912 MHz

Main Memory: 128MB (Direct RDRAM)

Graphics Processor GS (Graphics Synthesizer)

Clock Frequency: 147.456MHz

Embedded Cache VRAM: 4MB

I/O Processor PlayStation CPU+

Clock Frequency: 33.8688/36.864MHz

IOP Memory: 2MB

Communication Processor: MMX Pentium 233MHz

Hard Discs: 3.5" HDD (2) (Maximum 3)

Communication Processor Mode

DVD/CD Emulator (optional)

External Interfaces: Controller Port (2)

Memory Card Slot (2)

AV Multi Out, Optical Digital Out

USB Port (2), IEEE1394 (i.LINK) Port

PlayStation2 AV Cable, PC Card Interface (Type III)

Network Terminal (100 Base-T/10 Base-T)

S Video Input

Power Requirements: AC100 - 240V ($\pm 10\%$) 50/60 HZ ($\pm 10\%$)

Power Consumption: 3.8 A (100V), 1.6 A (240V)

Why I need

- I need my Playstation to play games. This meets my needs because I can play thousands of different games on the same console and there are new games released all of the time.
- I need it to watch DVD's. This meets my needs because I can watch most DVD's on my console.
- I need it to listen to music. This meets my needs because I can listen to CD's or store music on the console.

Advantages

- I can play with my friends or alone
- I can use it to stop me from getting bored in the car on long journeys
- Entertainment when it is dark and cold so I can't go out
- It has a large choice of games to play on
- It has better graphics than the older versions
- It lasts a long time so I don't have to waste money buying new ones all of the time

- Good quality games can be bought second hand or exchanged to reduce the cost which means I save money
- You can buy screens so it can be more mobile

Disadvantages

- New games are expensive
- Hardware is expensive to buy
- Playstation can only be used with a TV or screen
- Heavy and not very portable
- Can become addictive
- Doesn't look very good
- Controllers and games can get damaged easily and are expensive to replace.
- Parents can buy a parental lock to stop me playing too long!

Evaluation

I need a Playstation to entertain me so I don't get bored mainly on long journeys in the car. This stops me getting bored because I find it fun and exciting due to the wide variety of games and films available. I find some of the games exciting because they are challenging and test by ability as each level gets harder. I also need my Playstation so I can listen to music so I save money instead of buying a CD player as well.

I use my Playstation mainly for personal use in the home and car and also socially with my friends.

Data Capture

Digital camera - Canon Powershot A300



Equipment specifications

3.2-Megapixel CCD for images up to 2048 x 1536 pixels. 33mm

(equivalent) F3.6 optical lens, 5.1x digital zoom

1.5-inch TFT colour LCD, approx. 67,000 pixels

5-point AiAF system with single-point centre focus and focus lock

Low-light focus assist illuminator

Exposure modes: Auto/ manual/ stitch assist/ movie

Motion video w/audio, 640x480 up to 30 secs, 320x240 up to 3 mins

White balance options: Auto, daylight, cloudy, tungsten, fluorescent, fluorescent H

Shutter speeds from 1 second to 1/2000 second
Evaluative metering linked to the focus point
ISO settings: 50, 100, 200, 400 and Auto (50-150)
Photo Effects: Vivid, Neutral, Low Sharpening, Sepia, B&W
Built-in flash with Auto, Red-eye reduction auto, Forced on,
Red-eye on, forced off and slow-synchro
2x-10x enlarged playback function with scrolling
Direct Print to CP-100 and BJ Photo Direct printers
CompactFlash Type I removable storage
USB driverless downloads
Powered by two AA type batteries
Small (4.3 x 2.3 x 1.4 in.) and lightweight (6.2 oz)

Why I need

- I need a camera to take good quality photos. This meets my needs because I can easily take good quality pictures any were
- To take pictures to edit the photos on the computer to get a better quality picture to share with my friends and family. This meets my needs because I can easily send pictures via e-mail or MSN messenger
- To share my pictures by attaching them to e-mails. This meets my needs because it is easy and free to do
- To make short videos with. This meets my needs because I can easily do this because I just switch to video mode on my camera.
- To take pictures of things and then cell them on websites. This meets my needs because I can easily take a picture of something so people can see the picture of the item I am selling and it is better to see what you are buying.

Advantages

- Small and lightweight

- Good looking
- I can get better quality pictures on my digital camera than on my mobile phone
- I can zoom in
- Pictures can be stored on computer
- Order prints through internet
- Easy to see on computer
- Helps me sell things on e-bay
- I don't have to replace the film
- Easy to use

Disadvantages

- Poor battery life
- Digital zoom quality can be poor
- Need a computer to use some of the features available
- Expensive to buy
- Standard memory cards are not big enough and larger memory cards are expensive
- The camera will not always be in fashion so I may need to replace it soon

Evaluation

I need my digital camera because it helps me socialise with my friends and family by sending them pictures. It does this because I can send pictures of me and my friends around on MSN messenger. I need my digital camera because I can download pictures off the camera to the computer or put on e-bay to make money. It is easy to find things on eBay so there are a lot of customers. If I had a normal camera I would not be able to do all these things so that is why I need a digital one. I can send pictures via an email, which saves money instead of having to get the pictures developed, and posting them to friends.

I use my digital camera mainly for personal use selling items and for social use because I can share pictures with friends and family.