

ICT

Subject level Level 2

Resource site www.wqe.ac.uk/tasteractivities

Subject context Over the last 40 years or so ICT has had a tremendous impact on the way we do many things. It has brought many advantages, such as new ways to communicate and stay in touch, including email and mobile phones. But not all the changes have been beneficial, and you will also be looking at some of the negative effects too. For example, ICT has provided new ways for criminals to break the law.

Estimated time required to complete activity 3 hours

Resources required Laptop
Internet

Assignment details **Task 1:**
ICT. has affected society in many ways, some positive and some negative. For task 1, produce a presentation for a technical audience that explains the advantages and disadvantages of how using ICT. has impacted on or changed the way we do things today for the following people/groups:

- Individuals
- Businesses

Task 2:

Online facilities, whether on public or private networks, are vulnerable to attacks from determined individuals. There have been many high-profile examples of people hacking into secure government systems and of newspaper journalists hacking people's mobile phones. It is extremely difficult to keep the hacker out if they are very determined, but there are things we can do to prevent access by the opportunist.

Create a PowerPoint to explain what the following threats are and what a user can do to protect themselves against each threat:

- cyber bullying
- spam
- phishing
- denial of service attacks

Extension Tasks:

There have been many famous hacking and data breach cases. Do some research and find out about one famous case and explain what happened. These links may help you:

<https://www.csoonline.com/article/2130877/the-biggest-data-breaches-of-the-21st-century.html>

<https://www.cnbc.com/2019/07/30/five-of-the-biggest-data-breaches-ever.html>

<https://www.informationisbeautiful.net/visualizations/worlds-biggest-data-breaches-hacks/>

There have also been many famous computer viruses. Find out about one computer virus where: the virus originated, how it spread, what damage it caused and how it was stopped. You may find the following links helpful:

https://uk.norton.com/norton-blog/2016/02/the_8_most_famousco.html

<https://www.hongkiat.com/blog/famous-malicious-computer-viruses/>

https://en.wikipedia.org/wiki/Timeline_of_computer_viruses_and_worms