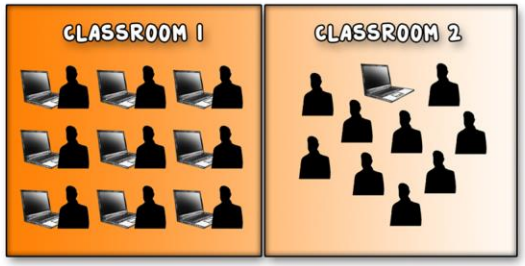
PiXL Computing

ThinkIT

ETHICAL, LEGAL, CULTURAL AND ENVIRONMENTAL FACTORS



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Legislation

Give a simple definition of each of the following:

- The Data Protection Act 1998
- The Computer Misuse Act 1990
- Copyright, Designs and Patents Act 1988
- Creative Commons Licensing
- Freedom of Information Act 2000

Find a real world example of each of these acts being implemented.

Ethics

- Define the term ethics
- Discuss if you think the following are ethical or unethical:
- Uploading photos of friends to social media without their permission
- Using a work computer to send personal emails
- Using a friend's unlocked phone to access their social media account
- Using a neighbour's Wi-Fi without permission
- Copying and pasting information from the internet for homework and pretending it's your own work

Environmental Impacts

- List 3 positive impacts of technology on the environment
- List 3 negative impacts of technology on the environment
- What uses more energy: a computer being created or a computer being used for its whole life time?
- How does technology impact the environment when it has been thrown away?
- How many computers and devices are in your school right now? Is the school and pupils' technology having a positive or negative impact on the environment?

Open Source vs. Proprietary Software

- Define the term open source software
- Give at least 3 examples of open source software
- What are the advantages and disadvantages of open source software?
- Define the term proprietary software.
- Give at least 3 examples of proprietary software
- What are the advantages and disadvantages of proprietary software.

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Digital Divide (cultural impact)

- Define the term "digital divide"
- Do you think there is a global digital divide?
- Do you think there is a national digital divide?
- Do you think there is a local digital divide?
- For each of the above, what could be done to reduce the digital divide?
- What impact would reducing the digital divide have on society?

Cultural Impacts

- What is meant by the phrase "cultural impact of technology"?
- How do you think attitudes and use of technology has changed in the last 10 years?
- When was social media invented? How has social media developed in that time and how has this impacted culture?
- What is the difference between the way in which people aged over 35 and those aged under 35 consume media?
- How has developing technology changed business culture?

Privacy

- Research Article 8 of the European Convention on Human Rights.
- Research the Regulation of Investigatory Powers Act 2000
- Of the above, which one protects a person's right to privacy and which one allows the right to be eroded?
- Name another act that protects a person's privacy
- List the ways that using a smart device can undermine your right to privacy.

Wearable Technology

- What is the definition of wearable technology
- Find 5 examples of wearable technology - apart from smart watches!
- How many people do you know that own some wearable technology?
- List at least 3 benefits of wearable technology. Be as specific as possible.
- What is the difference between wearable technology and computer based implants?