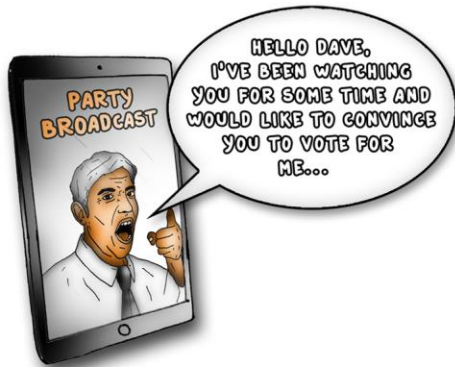KnowIT

ETHICAL, LEGAL, CULTURAL AND ENVIRONMENTAL FACTORS

Legislation

- Write a 500 word summary of the Apple vs Samsung global law suits
- Explain which company you agree with, Apple or Samsung
- Explain why there has been a cultural shift in illegal downloading to the extent that most don't consider it to be illegal.
- Create your own version of the Copyright, Designs and Patents Act so that it is more effective.
- Which is the most important piece of legislation that you've studied? Explain your answer with reference to at least 3 different pieces of legislation.

Ethics

- Was Edward Snowden right to leak details of his government's illegal activities?
- Find examples of when governments have used laws in a way other than they were initially intended to catch criminals.
- Write a justification for doing this from the government's perspective.
- Explain the ethical responsibilities of a software developer.
- Research the rise use of 'medical apps'. What different things can be done by a medical app that a doctor could also do?
- With a partner, argue for/against replacing doctors with technology

Hacking, Cracking and Cyber Security

- The most effective methods of hacking and cracking haven't changed since the 1980s. Why not?
- To what extent what the cyber attack on the NHS (May 2017) the fault of the NHS?
- List at least 3 potential computer based implants. Analyse the benefits of the implants vs the potential consequences of them being hacked.

Mobile Technologies

- What are the ethical, legal, cultural and environmental consequences of the rise in mobile technology? Which is the most significant and why?
- "The development of mobile technology has had the biggest cultural impact of the last 50 years." To what extent do you agree with this statement?
- What would be the benefits of your school having a "device free day"? What objections would you have to overcome to convince people to take part?

Cultural impacts

- Is it right that political parties can use data they have collected to target adverts at individuals on social media?
- Does this represent a loss in freedom of choice?
- Where do your generation learn about News/the world? Are you truly capable of thinking for yourself?
- Is there any type of News that isn't "Fake News?"
- Considering changing shopping habits, will we still have high street shops in 20 years?
- Explain how the dark web allows people in countries that have restricted internet access to have freedom of speech.

PiXL Computing

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ETHICAL, LEGAL, CULTURAL AND ENVIRONMENTAL FACTORS

Privacy

- If a company stores customer data on a cloud based server and data is hacked and stolen, who is at fault? The company or the cloud server?
- If you have a smartphone that tracks GPS and live in a town with extensive CCTV, is there any point at which you are not being monitored? If not, explain if you are comfortable with this concept.
- Roomba (an automatic vacuum cleaner) will map the layout of its owner's rooms/home and upload them to the manufacturer who will then sell the details to other companies. Explain if you think this is an invasion of privacy.

Environmental Impacts

- Analyse the different environmental impacts of cloud based storage and explain which you think is the worst.
- Explain the ways in which an individual can use technology to have a positive impact on the environment. Which is the most significant action and why?

Things!

- "Soon every home will have a household device connected to the internet." With reference to the statement explain the ethical, legal, cultural and environmental impact of the Internet of Things.
- Explain the advantages and disadvantages of wearable technology. Reference ethical, legal, cultural and environmental factors in your answer.