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| **What will we be learning?**  Protecting data and information | **Why this? Why now?**  Previously you have learned about using IT networks and online communities, this section introduces you to the issues and implications of storing and transmitting information in digital form. | **Key Words:**  Malware  Hackers  Phishing  Accidental damage  File permissions  Backup  Physical access  Digital certificate  Protocols  Antivirus software  Firewalls  Encryption  Data Protection Act 1998 - GDPR  Computer Misuse Act 1990  Information Commissioners Office (ICO)  Codes of practice |
| **What will we learn?**  Threats to data, information and systems  The impact of threats to data, information and systems to individuals and organisations  The features, characteristics and implications of using antivirus software and firewalls protect data  The features, applications and implications of encryption methods used  The role of current legislation in protecting data and IT systems  The impact of legislation on individuals and organisations  The role of the Information Commissioner’s Office (UK) | |
| **What opportunities are there for wider study?**  Students review and discuss current news articles which relate to current topics and they can consider the practical application of IT concepts by reviewing and discussing a range of news and video articles. The wider study provides the opportunity for students to explore theories and concepts in real business IT settings | |
| **How will I be assessed?**  Formative and summative assessments  End of topic test  Mock paper  Summative Examination | |