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| **What will we be learning?**  Transmitting data & issues | **Why this? Why now?**  Introduces you to the concept and implications of wired and wireless connection methods in a logical order | **Key Words:**  Cat5, Coaxial, Fibre optic  WiFi, 3G/4G/WiMAX, Satellite broadband, Microwave/Laser  Bluetooth, WiFi Direct, WiFi  Local area networks (LAN)  Wide area networks (WAN)  Personal area networks (PAN)  Virtual private network (VPN)  TCP/IP  Email  Voice and video calls  Web pages  Security protocols  Security considerations  VPNs and security  Bandwidth and latency  Bandwidth and latency implications  Compression  Codecs |
| **What will we learn?**  Wired connection methods  Wireless connection methods  Features of different networks  Network choice and performances  Protocols  Data transmission issues | |
| **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 | |