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| **Year 10 Term 3**  **Cambridge Nationals in IT** | Our mission is to stimulate and challenge our students to excel and provide a desire for lifelong learning and pursue careers in the world of Business, Computing, and ICT. | | | | | |
| **Enquiry Questions: Will every household device be required to connect to a network? What difference does a washing machine with WiFi benefit?** | | | | | | |
| **R050: IT in the Digital World**  In this unit students will learn the theoretical knowledge and understanding to apply design tools for applications, principles of human computer interfaces and the use of data and testing in different contexts when creating IT solutions or products. You will understand the uses of Internet of Everything and the application of this in everyday life, cyber-security and legislations related to the use of IT systems, and the different types of digital communications software, devices, and distribution channels. | | | | | | |
| **Knowledge**  Students will know about… | **Application/Skills**  Students will be able to… | **Vocabulary** | **Home Learning** | **Assessment** | **Extra Resources**  **Extended Reading** | **Cultural Capital** |
| **R050: Topics Area 5: Digital Communications**  Students will know the purpose of each digital communication and the advantages and disadvantages of each digital communication.  They will also need to know the characteristics of the software used to  Create digital communications and the device used, and know the characteristics of each type of distribution channel outlining their pros and cons.  Finally, students will know the characteristics of each connectivity method with their advantages and disadvantages of each connectivity method  **R050: Topics Area 6: Internet of Everything**  In the last part of this unit students will learn the four pillars of the Internet of Everything and understand the interaction between them. They will know about digital interactivity and how devices can be tailored to meet the needs of end users. | * Assess the suitability and justify the use of a digital communication applied to a given context * Select and assess software to meet user requirements * Select and assess the suitability of digital device(s) applied to a given context * Select and assess, and justify, the suitability of distribution channel(s) applied to a given context * Select and assess the suitability of connectivity method(s) applied to a given context * Select and assess the suitability of the digital communication, distribution channel and connectivity linked to specific audience demographic * Assess the suitability of the use of the IoE for each application area | * Audio * Collaboration tools * Leaflet * Infographics * Presentations * Reports * Social Media * Voice over Internet Protocol (VoIP) * Desktop Publishing (DTP) * Standard office applications * Smartphone * Smart TV * PC/Laptop * Tablet * Smartboard * Cloud, Email * Messaging * Mobile Apps * Multimedia * VoIP, 4G / 5G * Bluetooth * Wi-Fi | High quality Homework set on Google Classrooms  Teach-ICT.com  Hodder Education – Revision Book Cambridge Nationals in IT  Spreadsheet practice using Google Sheets | Milestone Assessments within Units of work  Formal End of unit assessments | [Teach-ICT.com](https://teach-ict.com/2016/GCSE_Computing/OCR_J277/OCR_J277_home.html)  Hodder Education – Revision Book Cambridge Nationals in IT | The National Science Museum (free events)  <https://www.sciencemuseum.org.uk/>  The Royal Institute of Science (free events)  <https://www.rigb.org/families/family-fun-days>  **National Museum of Computing, Bletchley Park (Near Milton Keynes)**  <http://www.tnmoc.org/>    Centre for Computing History, Cambridge  <http://www.computinghistory.org.uk/> |