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| Year \_\_11\_\_ | **Topic:**  **Period:** Autumn 1 |
| **Overview of topic:**  To study Online safety including issues of crime, sexting, fraud, extremism and fake news  Investigate types of cloud and traditional network design for individuals and organisations How hardware and software affect a network choices and design principles of effective data security | |
| **Key** **knowledge:**  Understand causes of Cyber Crime, cyber bullying, extremism and fake news and how to keep safe, and how to evaluate websites for trustworthiness.  **Key vocabulary:**   |  |  | | --- | --- | | **Tier 2** | **Tier 3** | | **Extremism**  **Cyber Security**  **Cyber Bullying**  **Fake News**  **Online Predators**  **Hackers**  **Fraudsters**  **Sexting**  **Evaluation**  **GUI**  **Cloud technology**  **Bandwidth**  **Synchronization**  **Networking**  **Network Privileges** | **DDOS**  **Trojan Horses**  **Worm Virus**  **Spyware**  **Shoulder Surfing**  **Command Line**  **WPA2**  **IP address**  **MAC address** | | **Key skills:**  ***Know how to…***  Understand how technologies are used to manage teams, to enable  stakeholders to access tools and services, and to communicate effectively. Learners should  understand the positive and negative impact that the use of modern technologies has on  organisations and stakeholders.  • Changes to modern teams facilitated by modern technologies:  o world teams (not bound by geographical restrictions, diversity)  o multicultural  o inclusivity (facilitation of member’s needs)  o 24/7/365 (no set work hours, team members in different time zones)  o flexibility (remote working vs office based, permanent vs casual staff).  • How modern technologies can be used to manage modern teams:  o collaboration tools  o communication tools  o scheduling and planning tools.  • How organisations use modern technologies to communicate with stakeholders:  o communication platforms (website, social media, email, voice communication)  o selection of appropriate communication channels (private/direct message,  public status update) for sharing information, data and media.  • How modern technologies aid inclusivity and accessibility:  o interface design (layout, font and colour selection)  o accessibility features (screen reader support, alt text, adjustable typeface/font size,  text to speech/’listen to this page’)  o flexibility of work hours and locations.  • Positive and negative impacts of modern technologies on organisations in terms of:  o required infrastructure (communication technologies, devices, local and  web-based platforms)  o demand on infrastructure of chosen tools/platforms  o availability of infrastructure  o 24/7 access |
| **Co-curricular opportunities: *(ASPIRE Day, Careers, clubs, competitions etc)***  Links to Minecraft club and similar clubs in school | **Key reading skills taught *(clarify, question, summarise, predict)* and key texts:**  **Wider Reading Opportunities/Links:**  Please see Classnote Books on Teams and [www.doddlearn.co.uk](http://www.doddlearn.co.uk) for independent homework and study |
| **How can I use this information at home?**   * Conversation starters with your children to discuss their learning * Support your child in carrying out independent research around the topic * Visit your local library (or BorrowBox), museums, or other locations to explore the topic * Promote books/other texts that explore this topic (see reading section) * Help your child to learn the key vocabulary | |