**Colton Hills Community School medium term planning – ICT/Computer Science**

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| **Topic title:**  **How do I legally and ethically use Cloud Computing** | **Year:** 8 **Term:** Autumn 1 | **Why we teach this:** To teach students how use the school computer systems in an effective manner starting with the basics to allow them to construct basic folder structures on both home drive and OneDrive. To understand what is allowed on to be done on the school computers and not by teaching computer legislation. | **Why we teach this here:** We teach this unit as the content covers both the computer science element but also the Level 2 BTEC. | |
| **Big questions:**   1. Why should I keep my username and password a secret? 2. How do I access my online accounts? 3. What is Cloud Computing 4. What laws must I follow when using a computer 5. How to stay safe using different networks? 6. How do I morally and ethically use a computer? | | **Builds on previous topics:** - Recap on computer authentications | **Links to future topics:** - Links to Level 2 BTEC content  - Links to computer science content | |
| **Key knowledge:**   * Recap on basic computer rooms rules * Looks at health and safety when using computer systems * Introduces the concept of the ‘Cloud’. * How and why organisation/individuals are using the cloud to carry out work. * How can Office 365 and OneDrive be used effectively. * Understand why computer legislation is so important and the repercussions if broken. * Understand the difference between the Computer Misuse Act and the Data Protection Act. * Understand how computers can be used in an ethically and morally manner. | **Key knowledge continued:**   * What is the difference between ethics and morals? * How has computer systems impacted the society? * How has computer system impacted our privacy? * What can we do to be more environmentally friendly? | |
| **Skills developed:**   * Basic skills on how to use the school computer systems in an effective manner. * To be able to use office 365 and the OneDrive to carry out work in school and out of school. * Make use of Cloud storage to save work. | |
| **Mini/Interim assessments:**   * Exam questions * Cloud assessment   **Termly summative assessment:**   * End of unit assessment out of 30 marks | | **Independent study tasks/resources:**  Week 1 – Rules, creation of folder structures  Week 2 – Login on to Office 365/Upload assignment  Week 3 – Creation of folder structure on OneDrive/ Cloud collaboration task  Week 4 – Law scenarios  Week 5 – What is morals and ethics?  Week 6 – Final assessments | **Key vocabulary 1:** Username  Password  Office 365  OneDrive  Network drive  Network  M drive  U drive  Server  Storage | **Key vocabulary 2:**  Cloud Computing  Cloud Storage  Law  Morals  Ethics |
| **Cultural capital opportunities:**  - Use of cloud collaboration live | | **Whole school Curricular Concept links:** Civic Responsibility  Cultural Diversity  Health Living  Artistic Creativity |

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| **Week/ Phase** | **Key Features** | |
| 1 | **Small Questions:** … | |
| **Key Activities/Resources:** … | **Retrieval focus:**  …  **Independent study:**  … |
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| 2 | **Small Questions:** … | |
| **Key Activities/Resources:**  … | **Retrieval focus:**  …  **Independent study:**  … |
|  |  | |
| 3 | **Small Questions:** … | |
| **Key Activities/Resources:**  … | **Retrieval focus:**  …  **Independent study:**  … |
| **Week/ Phase** | **Key Features** | |
| 4 | **Small Questions:** … | |
| **Key Activities/Resources:**  … | **Retrieval focus:**  …  **Independent study:**  … |
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| 5 | **Small Questions:** … | |
| **Key Activities/Resources:**  … | **Retrieval focus:**  …  **Independent study:**  … |
|  | | |
| 6 | **Small Questions:** … | |
| **Key Activities/Resources:**  … | **Retrieval focus:**  …  **Independent study:**  … |