Year 12 IT Summer Support 2021

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| BTEC Level 3 - IT |
| **Advice and support for all BTEC IT students****Regular independent study will aid the recall of knowledge and enhance your skills to ensure targets are met next year** | **Tick when complete** |
| * Complete the Summer revision pack guiding you what to work on over summer break in preparation for the exam in January 2022
* Research principles of website design and make notes about features influencing website design
* Find out and make notes about the work of the W3C
* Find out and make notes about factors affecting website performance
* Find out and make notes about search engine optimisation
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| **Internet websites and apps for study support** |
| **Pearson BTEC National Information Technology book (chapter 2 – ‘Creating Systems to Manage Information’)****Know It All Ninja website (KIAN) – Creating Systems to Manage Information****Microsoft Access – (only available on Windows devices and operating systems). *Ensure you download Office 365 onto your home computer using your school email address and password. This is so you can use Access software and develop your database skills. This will greatly support you in the Access exam coming up in January.*****Pearson BTEC National Information Technology book (chapter 6 – ‘Website Development’)** |
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| **Study areas to practise or complete** | **Where to find the information to revise** | **Tick when complete** |
| **Practice and develop your database skills in:** |  |  |
| * Normalisation to 2NF
 | KIAN – normalisationPearson book – pp 103 - 105 |  |
| * Producing entities (tables) with suitable fields and relevant key fields (primary, foreign, composite)
 | KIAN – producing database tables |  |
| * Validating fields to suit data input
 | Pearson book – pp 118 - 119 |  |
| * Producing entity relationship diagrams (ERD)
 | Pearson book – pp 94 - 96 |  |
| * Producing queries with advanced features (eg calculated fields)
 | KIAN – producing database outputsPearson book – pp 125 - 139 |  |
| * Producing reports with good layout and calculated fields
 | Pearson book – pp 157 - 158 |  |
| * Producing forms for data input and output
 | Pearson book – pp 123, 145 - 156 |  |
| **Key skills to practise** | **Where to find support on how to practise** | **Tick when complete** |
| As above. Time yourself when practicing each skill. Remember, the exam will be in two parts (3 hours and 2 hours). The 3 hour exam will consist of normalisation, ERD, table structure, validation, complex queries and complex reports, test and evaluation. | As above |  |