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| **Subject** | Information Technology - The digital sector is a major source of employment in the UK, with 1.46 million people working in digital companies and around 45,000 digital jobs advertised at any one time. | | | |
| **Head of Department** | Mrs Ramage | | | |
| **Teaching staff** | Mrs Gorry | | | |
| **Department Vision** | Development of project planning, designing and creating user interfaces, creating dashboards to present and interpret data. Personal management and communication knowledge and an understanding of how organisations collect and use data to make decisions, virtual workplaces, cyber security and legal and ethical issues. | | | |
| * **How students can “ASPIRE to excellence” in this field** | Students need to emerge themselves into technology, and experiment with the tools available to enhance knowledge and confidence with I.T. The most successful IT specialists are not afraid of trying new ways as technology is emerging every day. | | | |
| * **Rationale behind the curriculum chosen** | The KS3 Computing course is designed to equip students with all of the tools required to excel cross-curricular. It also offers a sample of KS4 Enterprise and DIT courses that are offered, to better inform students on which path to choose.  The Information Technology course is accessible to all students and the knowledge is extremely useful across the wide curriculum. It covers how to gather important research and analyse and interpret data, the second part of the coursework focuses on how technology is developed to allow a wide range of users to access. | | | |
| **Possible Careers** | Digital Manager of; Marketing, Sector, Analytics, Project Manager, Data Analyst. | | | |
| **What topics are covered in KS4** | *Year Group* | *Topics Covered* | *Dates of assessments* | *Link to Knowledge Organiser* |
| Year 11 | The aims for students this term is to focus on exam questions and understanding How IT can be used to fulfil needs of organisations and individuals:   * Functionality of Hardware devices * Functionality of Software * Services provided by IT   Then focus on how Data and Information is used and transferred using Validation methods and applying knowledge to large given data.  Legal, moral, ethical, cultural and environmental impacts of IT and the need for cybersecurity. | January Mock Exam  April Mock in Class |  |
| **How will the students be examined in KS4 (Be specific about the breakdown of exams/units)** | Students will complete two pieces of coursework in year 10 and an external exam in Year 11.  **Unit 1**: Exam content that is 40% of the overall grade and is sat in the summer term of Year 11, but all content is covered in Year 10 as the knowledge gained from the exam content is applied to the coursework (Unit 2) which is conducted from the summer term in Year 10 up until the Christmas of Year 11 covers for following topics:   * How IT can be used to fulfil the needs of organisations and individuals * How data and information is used and transferred * Legal, moral, ethical, cultural and environmental impacts of IT and the need for cybersecurity   **Unit 2:** Coursework with 60% of the overall grade, this is conducted in Year 11 and instructs students to complete four tasks for a prescribed company. They must:   * Design and develop a suitable logo, using an asset gained from the Internet * Produce a Letter and mail merge it with Customer data * Analyse a large spreadsheet to retrieve patterns and trends * Using CSV files, produce a Database and develop a series of reports, forms and queries to meet the needs of the organisation | | | |
| **Course Titles (as per specification)** | Unit 1 Exam (40%): Devices and Services; Data and Infromation; Legal, moral, ethical, cultural and environmental impacts of IT and Cybersecurity.  Unit 2: Coursework (60%): Logo Design, Mail Merge production, Spreadsheet and Database creation and analysis. | | | |
| **Extracurricular opportunities offered (clubs, trips etc)** |  | | | |
| **Link to SOL/LTP (Once these are ratified, not needed for the 11th)** |  | | | |
| **Links to useful website of interest for your subject Area.** | <https://www.bbc.co.uk/bitesize/guides/zwb4jxs/revision/1>  <https://www.bbc.co.uk/bitesize/subjects/z9qy6yc> | | | |