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| **Year 9 Curriculum Overview [2024-2025]** **Computing**  |
|  **Autumn Term** | **Knowledge & Understanding** | **Literacy Skills****Opportunities for****developing** **literacy skills** | **Employability Skills** | **Assessment Opportunities** |
| **Composites** | **Components****[KEY concepts & subject specific vocab]** | **Formal Retrieval****[if any]** |
| **Sept – Nov 2 x lessons per fortnight** | **High level language – Introduction to Text based programming** | * Computational Thinking
* Methods of selection – IF and ELIF
* Methods of iteration – WHILE and FOR
* Sort and Search methods
* Procedures and functions

e-safety – creating robust computer systems through defensive design |  Do Now activitiesMCQs at half term – 3rd lesson | * Reading of instructions
* Keyword terminology tasks
* Use of Bloom’s Taxonomy

Extended writing opportunities | * Problem solving
* System design
* Algorithmic thinking
 | * Formative MCQ
* Summative end of topic assessment
 |
| Catholicity across the curriculum – Reflection on technology’s role in society – students consider the ways that problems can be solved using automated programmes, and the way that users interact with computers. Vocation and technology as a gift – links to the KS4 curriculum are shared during this unit to help pupils recognise how their talents can lead to a career in computers. Encouraging minimalism in coding and storage |
| **Year 9 Curriculum Overview [2024-2025]** **Computing**  |
| **Spring****Term** | **Knowledge & Understanding** | **Literacy Skills****Opportunities for****developing** **literacy skills** | **Employability Skills** | **Assessment Opportunities** |
| **Composites** | **Components****[KEY concepts & subject specific vocab]** | **Formal Retrieval****[if any]** |
| **Nov-Feb 2x lessons per fortnight** | **Data Handling - Data Science**  | * Data Sets
* Visualisations
* Data Analysis
* Drawing conclusions
* Making decisions
* Modelling Data
 |  Do Now activitiesMCQ | * Keyword definitions
* Sentence starters
* Use of Bloom’s Taxonomy
* Extended writing tasks
 | * Problem solving
* System design
* Algorithmic thinking
 | * Formative MCQ
* Summative end of topic assessment
 |
| Catholicity across the curriculum – Understanding the boarder impact of technology – studying how data can be used to inform decision and predict outcomes. Data ethics – considering how data that is collected can be used to build a picture, and ultimately used to tailor what we access online. Recognising technology as a vocation – to see how technology can impact on a broad range of careers, especially where data analysis is involved. |
| **Year 9 Curriculum Overview [2024-2025]** **Computing**  |
| **Summer** **Term** | **Knowledge & Understanding** | **Literacy Skills****Opportunities for****developing** **literacy skills** | **Employability Skills** | **Assessment Opportunities** |
| **Composites** | **Components****[KEY concepts & subject specific vocab]** | **Formal Retrieval****[if any]** |
| **Feb – Apr 2 x lessons per fortnight** | **Physical Computing** | * Planning solutions to specific problems
* Sequence/Selection/Iteration
* Success Criteria
* Testing

e-safety – creating robust computer systems through defensive design |  Do Now activitiesMCQ | * Reading of instructions
* Keyword terminology tasks
* Use of Bloom’s Taxonomy
* Extended writing opportunities
 | * Creativity
* Project planning
* Resilience
 | * Formative MCQ
* Summative end of topic assessment
 |
| Catholicity across the curriculum – Promoting integrity in coding – pupils create systems independently but also understand the important of teamwork in problem solving. Encouraging minimalism in coding and storage – designing efficient programmes that reduce storage waste and processing requirements. |
| **Year 9 Curriculum Overview [2023-2024]** **Computing** |
| **Summer** **Term** | **Knowledge & Understanding** | **Literacy Skills****Opportunities for****developing** **literacy skills** | **Employability Skills** | **Assessment Opportunities** |
| **Composites** | **Components****[KEY concepts & subject specific vocab]** | **Formal Retrieval****[if any]** |
| **May to July 2 lessons per fortnight** | **Digital Citizenship** | * HTML
* Template
* Graphic Design
* Digital Citizenship
* AI
* Technology Legislation
* Digital Footprint
* Movie editing
 | Do Now activitiesMCQ at mid-point | * Keyword definitions
* Sentence starters
* Use of Bloom’s Taxonomy
* Extended writing tasks
 | * Problem solving
* System design
* Algorithmic thinking
 | * Formative MCQ
* Summative end of topic assessment
 |
| Catholicity across the curriculum – Digital footprint and privacy – considering the link between our human self and our digital presence. How do we protect our digital persona in the ways that we would protect our humanity. Community-oriented projects – creating a website to teach others about digital citizenship. Programming with purpose – combining all the IT and computing skills developed over the 3 year key stage to produce an integrated system that promotes a range of skill. Reflecting of technology’s role in society – understanding the long term consequences of having online accounts.  |