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| **Year 8 Curriculum Overview [2023-2024]** **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 lessons a fortnight** | **Computer systems – Networks****Presentation skills - infographic** | * Network hardware
* Network topologies
* Packet Switching
* The internet
* The internet of things
* Broadband
 | Do Now activitiesMCQs at mid-point | * Keyword definitions
* Sentence starters
* Use of Bloom’s Taxonomy
* Extended writing tasks
 | * Communication
* Digital Literacy
 | * MCQ
* Summative end of topic assessment
 |
| **Year 8 Curriculum Overview [2023-2024]** **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****2 lessons a fortnight** | **Data Handling – Low level language – Binary/Logic** | * How computers process data
* Binary and denary conversions
* Hex conversions
* Logic Gates and truth tables
* Binary addition
* Image representation
* Sound representation

eSafety – Safe storage of data | Do Now activitiesMCQ at mid-point | * Keyword definitions
* Sentence starters
* Use of Bloom’s Taxonomy
* Extended writing tasks
 | * Numeracy
* Problem solving
* Problem solving
 | * Formative MCQ
* Summative end of topic assessment
 |
| **Year 8 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]** |
| **Feb-March 2 lesson per fortnight**  | **Physical Programming - Microbit** | * Computational Thinking
* Input and outputs
* Sequence
* Selection
* Iteration
* Testing
 | 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
 |
| **Year 8 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]** |
| **June – July 2 lessons per fortnight** | **High level language – Introduction to Text based programming** | * Computational Thinking
* Variables and Lists
* Datatypes
* Methods of selection – IF and ELIF
* Methods of iteration – WHILE and FOR
* Sequencing – Algorithmic Thinking

e-safety – creating robust computer systems through defensive design | 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
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