|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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 activities  MCQs 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 activities  MCQ 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 activities  MCQ 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 activities  MCQ 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 |