Curriculum Plan – Computing

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| Year Group | Half-term | Units of Work | Assessed Pieces | Reading Skills | Writing Skills |
| **Year 7 National Curriculum**  | Autumn first half | eSafetyCAT tests | None for ICTCATs  | Will need to be able to read the questions to interpret what is required | Using PEE Chain to develop lesson work |
| Autumn second half | Introduction to Comp | Lesson 3 – 5 research document | * Will need to read briefs to establish what is required
* Will need to proof read finished work
* Will need to skim internet articles to find useful information
 | * Use the PEE chain
* Use connectives to develop writing
* Use key terms appropriately
* Be able to write ‘what if’ scenarios
* Record sources
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| Spring first half | Sequencing | Assessed on creation of game, including plans and evaluation |
| Spring second half | Modelling | Exam results task and sweet shop task |
| Summer first half | Audio | Audio plans and finished pieces |
| Summer second half | Presenting | Finished presentation to meet user requirements |

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| Year Group | Half-term | Units of Work | Assessed Pieces | Reading Skills | Writing Skills |
| **Year 8 National Curriculum** | Autumn first half | Websites | Homepage design and the finished website | * Will need to read briefs to establish what is required
* Will need to proof read finished work
* Will need to skim internet articles to find useful information
* Start to determine validity of sources
 | * Use the PEE chain
* Use connectives to develop writing
* Use key terms appropriately
* Be able to write ‘what if’ scenarios
* Be able to explain why one method is better than another
* Record sources
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| Autumn second half | Visual Programming | Planning, flowchart and the finished game with testing and evaluation |
| Spring first half | Animation | Design and the finished piece with testing and evaluation |
| Spring second half | Binary | Worksheet and mini test |
| Summer first half | Designing a HCI | Research task, planning and final HCI with testing and evaluation |
| Summer second half | eSafety | Guide to staying safe |

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| Year Group | Half-term | Units of Work | Assessed Pieces | Reading Skills | Writing Skills |
| **Year 9 National Curriculum** | Autumn first half | BinaryDesigning a HCI | Conversion exercises and mini testResearch task, planning and final HCI with testing and evaluation | * Will need to read briefs to establish what is required
* Will need to proof read finished work
* Will need to skim internet articles to find useful information
* Determine validity of sources
 | * Use the PEE chain
* Use connectives to develop writing
* Use key terms appropriately
* Be able to explain why they have done something a particular why and the impact of this
* Be able to explain why one method is better than another
* Record sources
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| Autumn second half | Programming a Calculator | Design, implementation and testing |
| Spring first half | Programming a Quiz | Design, implementation and testing |
| Spring second half | How the web works Networks | WorksheetWorksheet |
| Summer first half | Drawing and manipulating shapesSexting | Sexting finished product |
| Summer second half | App Inventor | Design and the finished piece with testing and evaluation |

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| Year Group | Half-term | Units of Work | Assessed Pieces | Reading Skills | Writing Skills |
| Year 10 Computing GCSE OCR  | Autumn first half | Programming A452 prep work |  2.1.7 Programming2.1.7 Programming – Algorithms questions and mini test2.1.7 Programming – Handling data in algorithms and mini test2.1.7 Programming – Testing questions and mini test | * Be able to methodically follow written instruction
* Be able to proofread finished project
* Will need to be able to read questions to interpret what is required
 | * Ability to structure content into a report format.
* Be able to use subject specific terms in context.
* Be able to analyse data and effectively communicate results
* Use the PEE chain
* Use connectives to develop writing
* Record sources
* Be able to demonstrate suitable literacy skills under controlled assessment conditions
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| Autumn second half | A452 Controlled assessment – research and evidence gathering | A452 Controlled Assessment tasks |
| Spring first half | A452 Controlled assessment – research and evidence gathering | A452 Controlled Assessment tasks |
| Spring second half | A453 Controlled assessment – research and evidence gathering | A452 Controlled Assessment tasksA453 Controlled Assessment tasks |
| Summer first half | A453 Controlled assessment – research and evidence gathering | A453 Controlled Assessment tasks |
| Summer second half | A453 Controlled assessment – research and evidence gathering | A453 Controlled Assessment tasks |

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| Year Group | Half-term | Units of Work | Assessed Pieces | Reading Skills | Writing Skills |
| Year 11 Computing GCSE OCR | Autumn first half | 2.1.1 Fundamentals of Computing2.1.2 Computer Hardware | Exam questions and mini test in exam conditions | * Be able to methodically follow written instruction
* Be able to proofread finished work
* Will need to be able to read the questions to interpret what is required
 | * Be able to use subject specific terms in context.
* Annotate code with clear instructions of purpose
* To explain advantages and disadvantages
* Use the PEE chain
* Use connectives to develop writing
* Be able to explain why one method is better than another
* Developing analytical writing
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| Autumn second half | 2.1.3 Software – Systems software and Utilities2.1.4 Representation of data | Exam questions and mini test in exam conditions |
| Spring first half | 2.1.5 Databases2.1.6 Communication and Networking | Exam questions and mini test in exam conditions |
| Spring second half | Revision of all topics covered | Full mock exam under exam conditions |
| Summer first half | Revision of all topics covered | Full mock exam under exam conditions |

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| Year Group | Half-term | Units of Work | Assessed Pieces | Reading Skills | Writing Skills |
| Year 12 Computing AS AQA | Autumn first half | Comp 1 & 2 | Mock test exam style questions Comp1 | * Be able to methodically follow written instruction
* Be able to proofread finished work
* Will need to be able to read the questions to interpret what is required
 | * Be able to use subject specific terms in context.
* Annotate code with clear instructions of purpose
* To explain advantages and disadvantages
* Use the PEE chain
* Use connectives to develop writing
* Be able to explain why one method is better than another
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| Autumn second half | Comp 1 & 2 | Mock test exam style questions Comp2 |
| Spring first half | Comp 1 & 2 | Mock test comp 1 & 2 inc coding style questions |
| Spring second half | Comp1 & 2 | extended answer exam questions |
| Summer first half | Comp 1 & 2 | extended answer exam questions |
| Summer second half | Comp 1 & 2 | Full mock test comp 1 & 2 inc coding style questions |

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| Year Group | Half-term | Units of Work | Assessed Pieces | Reading Skills | Writing Skills |
| Year 13 Computing A2 AQA | Autumn first half | Comp 4 Comp 3 – 3.3.1 Problem SolvingComp 3 – 3.3.2 Programming concepts | Normalisation coursework3.3.1 Problem Solving exam questions3.3.2 exam questions | * Be able to methodically follow written instruction
* Be able to proofread finished project
* Will need to be able to read the questions to interpret what is required
 | * Ability to structure content into a report format.
* Be able to use subject specific terms in context.
* Be able to analyse data and effectively communicate results
* Use the PEE chain
* Use connectives to develop writing
* Record sources
 |
| Autumn second half | Comp 4 Comp 3 – 3.3.3 Numbering SystemsComp 3 – 3.3.4 Operating SystemsComp 3 – 3.3.5 Databases | Database design courseworkExam questions |
| Spring first half | Comp 4 Comp 3 – 3.3.6 Communication and Networking | SQL & VBA Coding courseworkInterim full marking of Coursework |
| Spring second half | Comp 3 – Revision of all topics | Targeted mini exams on topics covered |
| Summer first half | Comp 3 – Revision of all topics | Full mock exam style test Comp 3  |