Curriculum Plan – Computing

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Year Group | Half-term | Units of Work | Assessed Pieces | Reading Skills | Writing Skills |
| **Year 7 National Curriculum** | Autumn first half | eSafety  CAT tests | None for ICT  CATs | 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 |
| 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 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 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 |
| 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 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Year Group | Half-term | Units of Work | Assessed Pieces | Reading Skills | Writing Skills |
| **Year 9 National Curriculum** | Autumn first half | Binary  Designing a HCI | Conversion exercises and mini test  Research 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 |
| 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 | Worksheet  Worksheet |
| Summer first half | Drawing and manipulating shapes  Sexting | Sexting finished product |
| Summer second half | App Inventor | Design and the finished piece with testing and evaluation |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 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 Programming  2.1.7 Programming – Algorithms questions and mini test  2.1.7 Programming – Handling data in algorithms and mini test  2.1.7 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 |
| 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 tasks  A453 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 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 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 Computing  2.1.2 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 |
| Autumn second half | 2.1.3 Software – Systems software and Utilities  2.1.4 Representation of data | Exam questions and mini test in exam conditions |
| Spring first half | 2.1.5 Databases  2.1.6 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 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 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 |
| 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 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 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 Solving  Comp 3 – 3.3.2 Programming concepts | Normalisation coursework  3.3.1 Problem Solving exam questions  3.3.2 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 Systems  Comp 3 – 3.3.4 Operating Systems  Comp 3 – 3.3.5 Databases | Database design coursework  Exam questions |
| Spring first half | Comp 4  Comp 3 – 3.3.6 Communication and Networking | SQL & VBA Coding coursework  Interim 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 |