

PRIMARY

KEY STAGE 3

KEY STAGE 4

KEY STAGE 5

Curriculum Intent

Key Stage 3

The KS3 ICT curriculum has been designed to give students a real understanding of their digital environment, develop key skills and prepare them for their future use of IT in their chosen careers across a wide range of job roles. It also covers how they can safely interact with IT at work, home and in study. It is about applying understanding and skills to use technologies to select data, manipulate, store, analyse and present it as information, and follow a project life cycle to structure how it's done. The delivery of the content in year 8 is aimed at developing these skills over the year allowing students to access all key types of software to work towards completing a given project, the project allows freedom of choice for students in terms of design, content, and structure following demonstrations of the basic skills to ALL students. This allows students to be able to stretch themselves when confident but also ensure all students have the same basic ICT knowledge.

Key Stage 4/5

The KS4 and 5 ICT curriculum have both been designed to give students a real understanding of their digital environment, develop key skills and prepare them for their future use of IT in their chosen careers across a wide range of job roles. It also covers how they can safely interact with IT at work, home and in study. It is about applying understanding and skills to use technologies to select data, manipulate, store, analyse and present it as information, and follow a project life cycle to structure how it's done. Students are all the given the same scenario to plan, build, test, and evaluate a product. All students have the opportunity to access the entire curriculum, they are then able to demonstrate and apply their knowledge to the best of their ability through the coursework and the exams.

1. How do you ensure consistent delivery of the subject across all key stages?

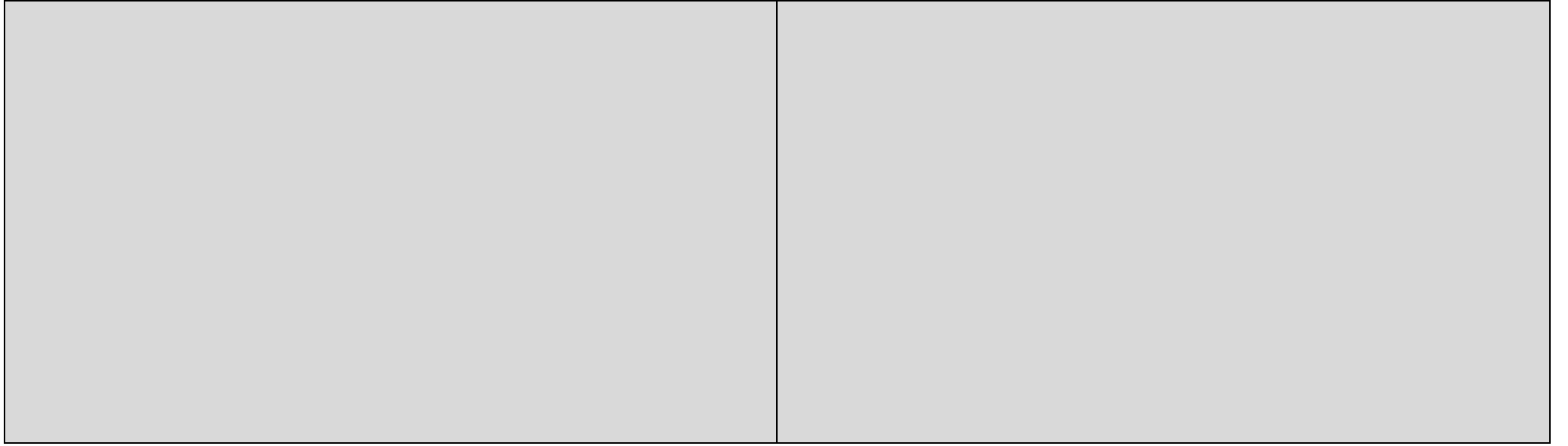
- Consistent technical vocabulary (focus on tier 3 language)
- Units are selected to create foundations in KS3 for development in KS4, delivered largely by the same teachers
- Use of knowledge organisers to develop theoretical understanding

2. How does the curriculum cater for disadvantages, SEND and other minority group students?

- Use of knowledge organisers inside and outside of lessons
- Projects allow for individuality in terms of contents and design decisions (stretch and support where needed)
- Choice of resources in delivery varies to suit a wide range of learner such as the use of websites to support learning, practical modelling, one to one support and instant feedback on progress.

3. How does the curriculum embed prior knowledge and aid long-term retention of knowledge?

- Units are selected to create foundations in KS3 for development in KS4, delivered largely by the same teachers
- EYFS/KS1 and KS2 all experience lessons within the ICT rooms used at KS3/4 and 5 allowing them to become comfortable with the hardware and software used.



PRIMARY

| Year | Term 1 | Term 2 | Term 3 | Term 4 | Term 5 | Term 6 |
|-------------|---|--|---------------------------------------|--|--|------------------------|
| EYFS | Different types of technology for their own purpose | | | | | |
| 1 | Online safety and exploring Purple Mash Technology outside school | Spreadsheets – 2Calculate | Pictograms | Creating, organising, storing, and manipulating retrieving digital content | Animated Story books | |
| 2 | Internet safety – use technology safely and privately. Recognise use of ICT within and beyond school. Effective searching | Spreadsheets – 2Calculate | Questioning – 2Question, 2Investigate | Use technology to create and store digital content Presenting ideas | Creating pictures – 2PaintAPicture Making music – 2sequence | |
| 3 | Internet safety – use technology safely and privately. Recognise use of ICT within and beyond school. Use search technologies effectively | Spreadsheets – 2Calculate | Branching databases Graphing | Use ICT to design and create content - Footwear design rendering | | |
| 4 | Effective search Online safety Writing for different audiences | Spreadsheets – 2Calculate | | Writing for different audiences Presenting with Microsoft PowerPoint | Logo Making music | Hardware investigators |
| 5 | E-safety Use of ICT in wider context Use search technologies effectively | Spreadsheets – 2Calculate | | Use ICT to design and create content Use search technologies effectively Use of ICT in wider context | Databases | |
| 6 | Online safety Blogging | Spreadsheets – 2Calculate Spreadsheets with Microsoft Excel | | Concept maps Word processing | Web development Blogging | |

| | | | | | | |
|--|----------|--|--|--|----------|--|
| | Networks | | | | Quizzing | |
|--|----------|--|--|--|----------|--|

KEY STAGE 3

In Key stage 3 students will access ICT lessons during their form time on a rota basis. Over the course of the academic year each student will be taught the following as part of their KBA ICT passport. This is a live curriculum and is developed according to the curriculum needs of the students. As a rule the below documents indicate likely topics that will be covered.

| ICT PASSPORT | |
|--|---|
| How to log on | Powerpoint:How to create a blank powerpoint |
| How to sign into One drive | Powerpoint: How to create a new slide |
| How to create a folder | Powerpoint: How to change the background colour |
| How to find their folder on Onedrive | Powerpoint: Slide master |
| How to use Office 365 | Powerpoint: Animations |
| How to search for Word etc | Powerpoint: Transitions |
| How to create a new document | Internet: How to save an image |
| How to save a document | How to use Seneca |
| How to log onto SMHW | Basic use of Teams |
| How to look for the homework set | Navigate websites |
| How to submit the work on SMHW | How to download a document |
| How to use the calendar on SMHW | Email: How to send an email |
| Word: Header & Footer | Email: How to reply to an email |
| How to use the snipping tool | Email: How to forward an email |
| Word: How to insert a picture | Email: How to attach a file to an email |
| Word: Wrapping text | Seneca - how to reset the password |
| Word: How to insert page numbers | How to print in A3 colour |
| Word: How to insert/delete rows in a table | |
| Word: How to alter text and page size | |
| Word: Use of heading styles | |

KEY STAGE 4

| | 1 st Half of the year (Sep – Jan) | 2 nd Half of the year (Jan-July) |
|----|---|--|
| 10 | <ul style="list-style-type: none"> • L01: The tools and techniques that can be used to initiate and plan solutions • L03: How data and information can be collected, stored and used • L04: The factors to be considered when collecting and processing data and storing data/information • L06: The different methods of processing data and presenting information • L07: Select and present information to meet an identified need • L08: How to carry out an iterative review | <ul style="list-style-type: none"> • Project Life Cycle (Coursework preparation for June) • - Initiation • - Phase review • - Planning • - Phase review • - Execution – Spreadsheet task, Database task • - Phase review • - Evaluation |
| | <p>Mid-Year Assessment Year 10 will sit their GCSE R012 exam in January – The date is to be confirmed</p> | <p>End of Year Assessment Year 10 will start their GCSE coursework in June. Date to be confirmed</p> |
| 11 | <ul style="list-style-type: none"> • Coursework: • Continue to complete the coursework • Theory: • L01: The tools and techniques that can be used to initiate and plan solutions • L04: The factors to be considered when collecting and processing data and storing data/information | <ul style="list-style-type: none"> • L03: How data and information can be collected, stored and used • L04: The factors to be considered when collecting and processing data and storing data/information |
| | | <p>March Mock Exams</p> <ul style="list-style-type: none"> • L06: The different methods of processing data and presenting information • L07: Select and present information to meet an identified need • L08: How to carry out an iterative review |
| | <p>November Mock Exams</p> | <p>ACTUAL GCSE EXAMS.</p> |

KEY STAGE 5

| | September – November | December – March | March - June |
|-----------|--|---|--|
| 12 | <ul style="list-style-type: none"> • Unit 1 – Fundamentals of IT • - Computer Components • - Types of Computer Systems • - Computer Hardware • - Connectivity Methods • - Communication Hardware • - Hardware Troubleshooting • - Units of Measurement • - Number Systems & Conversions • Unit 2 – Global Information • - Holders of Information • - Types of Information Storage Media • - The Internet • - Information Formats • Information Styles • Information Classification • Quality of Information | <ul style="list-style-type: none"> • Unit 1 – Fundamentals of IT • - Types of Software – Application Software, Utility Software • - Operating Systems • - Protocols • - Types of Servers • - Networking Characteristics & Topologies • - Business Systems • - Communication Skills & Technology • - Types of Software – Application Software, Utility Software • Personal Attributes • - Ready for Work & Job Roles • - Personal Bodies • - Industry Certification • Unit 2 – Global Information • Categories of Information • Stages of data analysis • Legislations • Green IT • Information sources and datatypes • Data flow diagrams • Information Management • Data vs Information • Principles of information security • Protection measures | <p>Coursework:</p> <p>Unit 21 – Web design and Prototyping</p> <ul style="list-style-type: none"> • Fundamentals of Web design • Plan a website • Create a website • Test the website <p>Unit 8 Project Management</p> <ul style="list-style-type: none"> - Methodologies - Minutes of Meetings - Gantt chart |
| | November Mock Exam | March Mock Exam | End of Year Exam |
| 13 | <p>Coursework:</p> <p>Unit 21 – Web design and Prototyping</p> <ul style="list-style-type: none"> • Present the website • Evaluation | <ul style="list-style-type: none"> • Revise for re-sit in both Units (1&2) • Practice Past papers | <ul style="list-style-type: none"> • Revise for re-sit in both Units (1&2) • Practice Past papers |

| | | | |
|--|---|------------------------|-----------------------------------|
| | Unit 8 Project Management & Unit 6 Application Design <ul style="list-style-type: none">• Reports• Evaluation | | |
| | November Mock Exam | March Mock Exam | ACTUAL A LEVEL EXAMINATION |

