

### KS3 Curriculum INTENT

The technological world is ever evolving.

Our aim is to give students the opportunity to explore the world of Information and Communication Technology, developing a deep understanding of its purpose as a tool and be prepared for its ever-evolving dynamics. Whether that is learning to write a program; mastering creative tools and software; or developing an awareness of their digital persona. ICT will give the students of Caldew the tools needed to succeed and thrive in a world that hasn't even been invented yet.

Following the pandemic, the importance of ICT has become clearer than ever. As students began to rely even more on technology in order to access their education. We therefore will look to focus on the following areas to close gaps and allow access to learning:

- E-Safety and how to safely access online learning
- Password and account management and how to exist online
- Technology needed to access online learning including or advantages on Tablets v Desktop Computers
- Using the internet to search for information, bookmark pages and use online software

### KS3 Curriculum Information

Year 7:

ICT in this year is focused on allowing students to understand and access the technology that surrounds them in their daily lives. The course looks at the three core concepts of Modern ICT: Computer Science, Digital Literacy and Extended Projects.

Topics:

- Using email and accessing the school computers
- E-Safety when using the internet
- 3D Design and Modelling
- Working with Bitmap images
- Microbits and problem solving
- Hardware and Robotics

Built into all of the Year 7 topics there is a strong focus on the skills with particular focus on:

- E-Safety
- Digital Literacy
- The use of software such as Firefly, One Drive, Word, PowerPoint and Excel
- Planning, production and evaluation

## Year 8:

ICT aims to further develop students' skills in the concepts of Modern ICT: Computer Science, Digital Literacy and Extended Projects. There is a greater focus on how ICT exists in the modern world and we aim to develop the students' skills in being able to produce excellent examples of work that strive towards professional standards.

### Topics:

- Digital graphics and photo manipulation
- Developing mobile apps
- Understanding the internet and evaluating sources of information
- Computer systems from past to present
- Develop ICT resources for a modern business

Built into all of the Year 8 topics there is a strong focus on skills with particular focus on:

- E-Safety
- Digital Literacy
- The use of software such as Firefly, One Drive, Word, PowerPoint and Excel
- Designing for a particular audience
- How to evaluate work based on specific criteria

## Year 9

In Year 9 we begin to prepare students for the work that they will be doing at GCSE level as well as ensuring that they have had a very well rounded and complete experience of ICT and Computer Science whilst at KS3. As well as helping them choose the correct ICT path within their options, they will then leave with the fundamental skills needed to access and use modern technology from KS4 onwards.

Our department offers a choice of subjects at GCSE, which are Computer Science, Media Studies, Creative iMedia and Photography.

### Topics:

- Problem solving and programming in python
- Analysing media texts and the film industry
- Digital production project
- The future of ICT
- Getting GCSE ready with Microsoft Office

Built into all of the Year 9 topics there is a strong focus on skills with particular focus on:

- E-Safety
- Digital Literacy and problem solving
- The use of software such as Firefly, One Drive, Word, PowerPoint and Excel
- Designing for a particular audience
- How to evaluate work based on specific criteria