

Curriculum Implementation – Information Technology

Key Stage 4

Key Concepts Taught



- **User Interface Design Principles and Project Planning Techniques**
 - Features of effective user interface design (appearance and functionality).
 - Adapting user interfaces for accessibility.
 - Creation of user interfaces to meet client requirements.
- **Collecting, Presenting and Interpreting Data**
 - Methods for collecting data.
 - Use of software for presenting and analysing data.
 - Identifying trends and patterns in data to draw conclusions.
- **Effective Digital Working Practices**
 - How organisations use digital technology to work effectively.
 - The threats posed by the use of digital technology, and how to manage these risks.
 - The components of digital systems.





How You Receive Feedback



- Self-assessment revisited regularly.
- Peer assessment against grade descriptors/success criteria.
- Feedback through continuous questioning in lessons.
- Practice exam question feedback assessed from exam board grade descriptors.
- Key tasks handed in and marked at least every two weeks.
- Feedback on Controlled Assessments in line with exam board expectations.

How do Lessons Link to Key Concepts



- **User Interface Design Principles and Project Planning Techniques**
Learners will develop their understanding of what makes an effective user interface and how to effectively manage a project. They will use this understanding to plan, design and create a user interface.
- **Collecting, Presenting and Interpreting Data**
Learners will understand the characteristics of data and information and how they help organisations in decision making. They will use data manipulation methods to create a dashboard to present and draw conclusions from information.
- **Effective Digital Working Practices**
Learners will explore how organisations use digital systems and the wider implications associated with their use.





**How we get
Support with our
Lessons**



- Teacher-led demonstrations.
- Pre-recorded video demonstration on key skills in video editing and digital image manipulation.
- Clear instructions broken into small steps to follow.
- Modelling and scaffolding.
- Working with peers.
- Exemplar materials such as previous projects.
- Extensive support resources provided on the network and on Google Classroom.

**Retrieval Practice
Opportunities /
Supporting Ways
to Help us
Remember**



- Regular on-screen whole-class quiz games.
- Topic tests.
- Think, pair, share.
- Knowledge organisers.

**Opportunities for
Literacy**



- Accurate interpretation of exam questions.
- Definitions of subject specific terminology and application of vocabulary within work.





Opportunities for Numeracy



- Students will learn about resolution, colour depth, bit rate, file sizes, etc. They will develop an understanding of how adjusting these values will impact on products produced.
- The module 'Collecting, Presenting and Interpreting Data' requires the development and demonstration of a range of numeracy skills within spreadsheet software.

Opportunities for Oracy



- Frequent discussions – whole class, pair work.
- Students encouraged to have an opinion and share ideas.
- Students to lead instruction of whole class or small groups on practical tasks.

Opportunities for Character Education



- Working as part of a team and listening to each other's views.
- Deciding outcomes in groups and pairs.
- Resilience – not giving up.





Opportunities for SMSC



- The module 'Effective Digital Working Practices' incorporates a range of topics relevant to SMSC including:
 - Online safety
 - Cyber security
 - Social, economic and environmental impacts of technology

Opportunities for Assessing Learning



- Linking learning – what we did last lesson, this lesson and next lesson.
- Plenaries to reflect on learning.
- Quizzes.
- Controlled Assessment pieces.
- Questioning.
- Exam practice.
- Products produced in practical tasks.
- End of unit assessments.
- Pre-Public Examinations.

