

Year 7 Computers and the Law (Summer 2)

- Understanding the ethical issues surrounding the application of information technology, and the existence of legal frameworks governing its use; in particular the Data Protection Act, Computer Misuse Act, and the Copyright Designs and Patents Act.

Minimum Expected Standards

ICT Year 7

Inside this booklet you will find a summary of all the knowledge and skills that the academy expects you to master in this subject by the end of the year.

These are the **minimum standards** that we set for all students. If you achieve this you should be on track to achieve at least a **grade 5/6 in your GCSE** in year 11.

During each half-term you will have regular **'learning checks'** to assess how well you are progressing against the expected standards. If you do not reach the expected standard in any of these checks you should be seeking help from your teacher, asking for study supports and using the materials on TGISpace to help you improve.

If you wish to push yourself further your teacher will also be sharing with you examples of how to go **beyond the expected standards**

**Tudor Grange Academy
Solihull**

Year 7 E-Safety (Autumn 1)

Practising e-safety

- I can use technologies and online services securely, and know how to identify and report inappropriate conduct.
- I can recognise moral, ethical and social issues surrounding the application of information technology beyond school.

Application of digital assets

- I can create, re-use, revise and re-purpose digital artefacts for a given audience, with attention to trustworthiness, design and usability.
- I can consider the source of digital artefacts.

Technological Understanding

- I can evaluate the appropriateness of digital devices, internet services and application software to achieve given goals. Identify and explain how the use of technology can impact on society.

Presentation

- I can produce work that contains few spelling / grammar issues.
 - I can work is generally well-presented with some consistency and style
-

Year 7 Compute-IT (Autumn 2)

Computing fundamentals

- I can demonstrate an understanding of the history of computing; input, process and output in computer systems; the main parts of basic computer architecture; the use of binary to represent all data in digital computers.
- I can perform simple operations using bit patterns e.g. binary addition.

Algorithmic understanding

- I can partially decompose a problem into its sub-problems and make use of a notation to represent it.
- I can explain the purpose of algorithms and produces a working algorithm based around a scenario that a computer would be able to follow.

Application of digital assets

- I can use reliable sources of information in research.
- I can demonstrate discernment in the selection of information for work.

Presentation

- I can produce work that contains few spelling / grammar issues.
- I can work is generally well-presented with some consistency and demonstrates a good standard of written communication.

Year 7 HCI (Spring 1)

Digital Assets

- Use reliable sources of information for research
- Demonstrate discernment in the selection of information for work

Human Computer Interaction

- Identify HCI methods
- Justify HCI methods and repurposing products for a given purpose / audience, based on primary research

Presentation

- Create a prototype that could be adapted into a working application
- Show an awareness of colour scheme and use of images reflecting the product.

Evaluating Products

- Design criteria to critically evaluate the quality of products, use of peer feedback to identify improvements and make appropriate refinements to the product.
 - Undertake creative projects that collect, analyse and evaluate data to meet the needs of a known user group.
-

Year 7 Hi-ICT Project (Spring 2 & Summer 1)

Application of Digital Assets

- Using reliable sources of information
- Demonstrate discernment in the selection of information

Developing multimedia products

- Create pathways
- Enhancing user interaction
- Employing animation effects

Presentation

- Demonstrate an acceptable standard of spelling and grammar, presentation and written communication

Evaluating products

- Testing
- Refining and improving work