



GCSE ICT / DIGITAL TECHNOLOGY – REVISION CHECKLIST

(CCEA-aligned, student-friendly)

1. HARDWARE & COMPUTER SYSTEMS

Input, Output & Storage

- Can identify input devices (keyboard, mouse, scanner)
- Can identify output devices (monitor, printer, speakers)
- Can identify storage devices (USB, SSD, HDD, cloud)

Components

- Understand CPU and its role
- Know what RAM and ROM are
- Can explain the purpose of a motherboard
- Understand graphics cards & sound cards

Types of Computers

- Desktop vs laptop
- Tablet vs smartphone
- Embedded systems (e.g., microwaves, cars)

2. SOFTWARE

System Software

- Know what an operating system does
- Can explain file management
- Understand memory management

- Know what utility software is (antivirus, compression, backup)

Application Software

- Word processing
- Spreadsheets
- Databases
- Presentation software
- Graphics & multimedia tools

Software Licensing

- Open-source vs proprietary
- Freeware vs shareware

3. NETWORKS & CONNECTIVITY

Network Types

- LAN
- WAN
- WLAN (Wi-Fi)

Network Hardware

- Router
- Switch
- Modem
- Server
- Access point

Network Concepts

- IP addresses
- Bandwidth
- Wired vs wireless connections
- Advantages & disadvantages of networks

4. DATA REPRESENTATION

Binary & Data Types

- Understand binary digits (bits, bytes)
- Convert between bits/bytes/KB/MB/GB
- Know what ASCII and Unicode are
- Understand image resolution & file size
- Understand sound sampling basics

5. CYBERSECURITY & ONLINE SAFETY

Threats

- Malware (virus, worm, Trojan)
- Phishing
- Hacking
- Social engineering

Protection Methods

- Strong passwords
- Two-factor authentication
- Encryption
- Firewalls
- Backups

Online Safety

- Recognising suspicious messages
- Protecting personal data
- Understanding digital footprint
- Safe social media behaviour

6. LEGISLATION & ETHICS

Laws

- GDPR (data protection rights)
- Computer Misuse Act
- Copyright law

Ethical Issues

- Privacy
- Surveillance (e.g., CCTV)
- Digital divide
- Environmental impact of technology

7. DATABASES

Key Concepts

- Field
- Record
- Table
- Primary key

Skills

- Sorting & filtering
- Creating queries
- Understanding data types (text, number, date)

8. SPREADSHEETS

Basics

- Entering data
- Formatting cells
- Using simple formulas

Formulas & Functions

- =SUM()
- =AVERAGE()
- =MAX() / =MIN()
- Cell referencing (absolute vs relative)

Charts

- Bar charts
- Pie charts
- Line graphs

9. DIGITAL MEDIA & DESIGN

Design Principles

- Layout
- Colour
- Fonts
- Consistency
- Audience & purpose

Digital Tools

- Image editing basics
- Creating posters, leaflets, presentations
- Understanding file formats (JPEG, PNG, MP4, PDF)

10. WEB & ONLINE TECHNOLOGIES

Web Concepts

- What a URL is
- What a hyperlink is
- Difference between website and webpage
- Cookies & tracking

Website Design

- Navigation
- Accessibility
- Mobile-friendly design
- Safe handling of images & personal data