

Mapping to AQA GCSE ICT (45201 / 45202 / 45203)
(Based on AQA specification for exams June 2011 onwards)

<i>Subject content</i>	<i>Boardworks presentations</i>
Section 3.1 Current and emerging technologies	
3.1.1 Computer systems and mobile technologies	
a. Hardware	Introduction to Computer Systems: Introduction to Hardware
b. Types of hardware	Introduction to Computer Systems: Introduction to Hardware; Processing
c. Software	Introduction to Computer Systems: Introduction to Software
d. Personal and commercial computer systems	Introduction to Computer Systems: A Basic Computer System
e. Mobile technologies	Current and Emerging Technologies: Mobile Communications
f. Using computer systems	Introduction to Computer Systems: A Basic Computer System
g. Identify ICT problems and solve errors	Current and Emerging Technologies: Digital Devices
h. Emerging technologies	Current and Emerging Technologies: Current and Emerging Uses of ICT ICT in Context: The Modern Workplace
3.1.2 Current input and output devices	
a. Input devices (common and specialist)	Introduction to Computer Systems: Input Devices

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b. Advantages and disadvantages of different types of input devices	Introduction to Computer Systems: Input Devices
c. Output devices (common and specialist)	Introduction to Computer Systems: Output Devices
d. Advantages and disadvantages of different types of output devices	Introduction to Computer Systems: Output Devices
3.1.3 Storage devices and media	
a. Types of memory	Introduction to Computer Systems: Storing Data
b. Backing / Secondary storage devices and media of different types and with different uses, their advantages and disadvantages	Introduction to Computer Systems: Storing Data Working Safely and Efficiently: Keeping Data Safe
c. Impact of using storage devices	Introduction to Computer Systems: Storing Data
3.1.4 Communications and entertainment	
a. Advantages and disadvantages of using communication networks	Networks and Communications: Introduction to Networks; Types of Network
b. Communication devices and media	Networks and Communications: Introduction to Networks Current and Emerging Technologies: Mobile Communications
c. Network devices	Networks and Communications: Introduction to Networks; Setting up a Network
d. Entertainment systems	Personal Use of ICT and Communication: ICT and Entertainment; Games Technology

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e. Reliability of information	Research and Information Handling: Evaluating Information
f. Impact of communication technology	Personal Use of ICT and Communication: ICT and Entertainment; Games Technology Legal, Social and Environmental Issues: Data Protection Act; Other ICT Legislation Current and Emerging Technologies: Mobile Communications
Section 3.2 A range of ICT tools and techniques	
3.2.1 Systems life cycle	
a. The Systems life cycle	The Systems Life Cycle: The Systems Life Cycle
3.2.2 Working with information to solve problems	
a. Information and data	Introduction to Computer Systems: Processing
b. Finding, selecting and using information	Research and Information Handling: Researching Using ICT; Searching the Web
c. Quality of information and / or data	Research and Information Handling: Evaluating Information
d. Data collection / capture methods	Introduction to Computer Systems: Input Devices ICT in Context: Monitoring and Control; ICT and Education
e. Reviewing and modifying work	Creating Multimedia Products: Paper Publications; Word Processing

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f. Presenting information in ways that are fit for purpose and audience	Creating Multimedia Products: Paper Publications; Presentation Software; Planning a Creative Product
g. Sharing and exchanging information electronically	Databases: Importing and Exporting Data ICT in Context: ICT and Education
h. Evaluate the effectiveness of ICT tools to meet needs	Creating Multimedia Products: Evaluating Your Creative Product
3.2.3 Operating systems and user interfaces	
a. Operating systems	Introduction to Computer Systems: Operating Systems
b. User interface	Introduction to Computer Systems: User interfaces
c. File / folder organisation	Working Safely and Efficiently: File Management
3.2.4 Applications software	
a. Use of applications software	Introduction to Computer Systems: Applications Software
b. Proprietary and open source software	Introduction to Computer Systems: Applications Software; Introduction to Software
c. Hosted applications	Introduction to Computer Systems: Applications Software; Introduction to Software
d. Generic features of software (appearing as reasonably common features in most software packages)	Introduction to Computer Systems: Applications Software; Introduction to Software
3.2.5 Word processing, DTP, web design and other presentation software	

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a. Specific features of and differences between a word processor and DTP	Creating Multimedia Products: Paper Publications
b. A word processor and DTP	Creating Multimedia Products: Paper Publications; Word Processing
c. Use features of different software packages to organise and present information	Creating Multimedia Products: Paper Publications; Word Processing
d. Presentation software	Creating Multimedia Products: Presentation Software
e. Web design software	Creating Multimedia Products: Web Design Software
f. Software for audio, DVD and video players	Creating Multimedia Products: Sound; Video
g. Podcast	Creating Multimedia Products: Sound
3.2.6 Graphics production and image manipulation	
a. Specific features of graphics manipulation software	Creating Multimedia Products: Graphics
3.2.7 Spreadsheets and modelling software	
a. Types of data (common to spreadsheets and databases)	Spreadsheets and modelling: Introduction to Spreadsheets; Formatting Spreadsheets
b. Specific features of a spreadsheet	Spreadsheets and modelling: Introduction to Spreadsheets; Formatting Spreadsheets; Cell References and Sorting; Advanced Functions and Charts
c. Formulae and functions	Spreadsheets and modelling: Formulae; Functions; Advanced Functions and Charts

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d. Modelling	Spreadsheets and modelling: Solving Problems with Spreadsheet Models
3.2.8 Databases	
a. Data structures	Databases: Database Structure
b. Collect / enter data to a database	Databases: Creating forms; Editing Records
c. Specific features of a database	Databases: Database Structure
d. Everyday tasks for databases	Databases: Editing Records; Uses of Databases
e. Data redundancy	Databases: Uses of Databases
f. Outputs	Databases: Importing and Exporting Data
g. Mail merging	Databases: Uses of Databases
3.2.9 Web browsing and e-mail	
a. Web browser and search engine	Research and Information Handling: Searching the Web
b. E-mail	Personal Use of ICT and Communication: E-mail; Advanced E-mail Options
3.2.10 Web logs and social networking	
a. Web logs	Personal Use of ICT and Communication: Blogs and Social Networking

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b. Social networking software	Personal Use of ICT and Communication: Blogs and Social Networking
3.2.11 Data logging and control software	
a. Data logging	ICT in Context: Monitoring and Control
b. Controlling devices	ICT in Context: Monitoring and Control
c. Control-feedback loop	ICT in Context: Monitoring and Control
3.3 Society's use of ICT	
3.3.1 Legal issues	
a. Data Protection Act	Legal, Social and Environmental Issues: Data Protection Act
b. Computer Misuse Act	Legal, Social and Environmental Issues: Computer Misuse Act
c. Copyright law	Legal, Social and Environmental Issues: Copyright
d. Health and Safety issues at work	Legal, Social and Environmental Issues: Health and Safety Act
3.3.2 Social and economic issues	
a. Changing pattern of commerce and industry due to increased use of ICT	Legal, Social and Environmental Issues: Social and Political Impacts

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b. Changing pattern of employment due to increased use of ICT	Legal, Social and Environmental Issues: Social and Political Impacts ICT in Context: The Modern Workplace
c. Acceptable ICT use	Working Safely and Efficiently: Online Safety
d. Responsible behaviour online	Working Safely and Efficiently: Online Safety
e. Social and personal effects of ICT	Legal, Social and Environmental Issues: Social and Political Impacts Personal Use of ICT and Communication: Blogs and Social Networking
f. Accessibility	ICT in Context: ICT and Disability
g. Sustainability and re-cycling	Legal, Social and Environmental Issues: Environmental and Sustainability Issues
3.3.3 Political, ethical and environmental issues	
a. Political and ethical issues	Legal, Social and Environmental Issues: Social and Political Impacts
b. Using ICT to monitor and minimise harmful effects on the environment	Legal, Social and Environmental Issues: Environmental and Sustainability Issues
c. Impact of ICT on different peoples	Legal, Social and Environmental Issues: Social and Political Impacts
3.4 Collaborative working	
3.4.1 Principles and processes of collaborative working	

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a. Collaboration	ICT in Context: The Modern Workplace
b. Collaborative working processes	ICT in Context: The Modern Workplace The Systems Life Cycle: The Systems Life Cycle
c. Video / teleconferencing	ICT in Context: The Modern Workplace
d. Collaborative situations and software	ICT in Context: The Modern Workplace The Systems Life Cycle: The Systems Life Cycle
e. Sharing information and online safety	ICT in Context: The Modern Workplace Working Safely and Efficiently: Keeping Data Safe; Standard Working Practice; Online Safety
f. Advantages and disadvantages of collaborative home working	ICT in Context: The Modern Workplace