UNSW Global | Assessments

DIGITAL TECHNOLOGIES
ASSESSMENT FRAMEWORK

PAPER A & B

GENERAL SKILLS	WORD PROCESSING	GRAPHICS & MULTIMEDIA	INTERNET & EMAIL	SPREADSHEETS & DATABASES	PROGRAMMING & SCRIPTING
AREAS: ▪ Digital Systems, including hardware and software ▪ Peripheral Devices ▪ Basic Terminology	**AREAS:** ▪ Basic Operations ▪ Simple Formatting	**AREAS:** ▪ Basic Operations ▪ Simple Presentations ▪ Common Multimedia	**AREAS:** ▪ Basic Web Concepts ▪ Email Fundamentals ▪ Social Media ▪ Cyber Safety ▪ Online Collaborative Platforms	**AREAS:** ▪ Basic Operations ▪ Spreadsheet Fundamentals	**AREAS:** ▪ Basic Block-based Coding
Questions may require the student to: ▪ Identify components of digital systems ▪ Distinguish what is software/ hardware ▪ Identify/recognise components of the menu bars, etc. ▪ Identify and use basic terminology ▪ Justify decisions about the purpose of back-up ▪ Recognise the use of apps on mobile devices	**Questions may require the student to:** ▪ Create a new document: enter text, delete, save, save as ▪ Use basic edit features such as: cut, copy, paste ▪ Identify features such as: tool bar, menus, icons, cursor ▪ Apply basic formatting including: font, font size, font style, colour, align text ▪ Use dictionary including spell check ▪ Operate print, print preview	**Questions may require the student to:** ▪ Manipulate graphics: resize, rotate, flip, order, colour ▪ Identify function/s of drawing tools ▪ Recognise and use components of multimedia ▪ Recognise icons: audio, video ▪ Create simple PowerPoint/ other slideshows	**Questions may require the student to:** ▪ Send, receive and reply to email ▪ Identify components of a web browser ▪ Use bookmark/favourites ▪ Apply simple search terms and conventions ▪ Locate web address ▪ Recognise hyperlinks ▪ Make decisions about the implications of digital footprint	**Questions may require the student to:** ▪ Recognise structure and purpose ▪ Recognise the active cell ▪ Interpret simple spreadsheets and data ▪ Present data in the required format ▪ Conduct a search in a simple database	**Questions may require the student to:** ▪ Recognise sequence in basic block-based coding

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Paper Introductory = Year 2
Paper A = Year 3
Paper B = Year 4
Paper C = Year 5
Paper D = Year 6

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PAPER C & D

GENERAL SKILLS	WORD PROCESSING	GRAPHICS & MULTIMEDIA	INTERNET & EMAIL	SPREADSHEETS & DATABASES	PROGRAMMING & SCRIPTING
AREAS: • Digital systems, including hardware and software • Common Terminology • Peripheral Devices **Questions may require the student to do all of the above and:** • Recognise components of digital systems • Recognise and identify basic network concepts • Recognise and explain the purpose of hardware peripherals • Define and implement basic file management conventions: naming, version control • Explain terminology including, Wi-Fi, Bluetooth • Explain the purpose of mobile devices as digital peripherals and systems	**AREAS:** • Common Operations • Formatting • Tables **Questions may require the student to do all of the above and:** • Use Find and Replace • Justify text • Import and paste images • Create and format simple tables • Use toolbars • Use thesaurus	**AREAS:** • Common Operations • Presentations with Effects • Common Multimedia **Questions may require the student to do all of the above and:** • Create more complex presentations incorporating: animation, audio files, video, colour, time delay • Edit audio, video • Manipulate graphics: crop • Explore and identify the use of gradients, patterns, custom colours • Manipulate tools: size of paint brush	**AREAS:** • Web Concepts • Internet Use • Email Fundamentals • Social Media • Cyber Safety • Online Collaborative Spaces **Questions may require the student to do all of the above and:** • Use forward and cc functions in emails • Know how to add attachments to email • Recognise components of web addresses • Use search engines; assess search results; download information. • Identify and use conventions of web design • Use online platforms • Make responsible and ethical decisions in the use of online data and information	**AREAS:** • Common Operations • Database Fundamentals **Questions may require the student to do all of the above and:** • Make simple calculations • Modify and manage data: insert/delete rows/columns; sort • Identify and use formatting tools to manage and maintain data: font; colour; number; text; etc. • Recognise a change to one cell impacts on another • Create and present graphs and charts • Apply appropriate search terms for database searches • Distinguish between spreadsheets and databases	**AREAS:** • Block-based Coding • Simple Algorithm **Questions may require the student to do all of the above and:** • Recognise simple algorithms • Recognise sequence and loops in pseudocode

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PAPER E & F

GENERAL SKILLS	WORD PROCESSING	GRAPHICS & MULTIMEDIA	INTERNET & EMAIL	SPREADSHEETS & DATABASES	PROGRAMMING & SCRIPTING

AREAS:
- Information Systems including hardware and software
- Basic Operating Systems
- Maintenance

Questions may require the student to do all of the above and:
- Recognise/interpret/ identify operating systems performance indicators: disk space; alert boxes; warnings; viruses; memory; CPU
- Recognise procedures to cable/unplug correctly
- Identify the use of flash drives; memory cards
- Identify purpose and process for upgrade installation
- Investigate and use a variety of storage devices, including cloud storage

AREAS:
- Advanced Operations
- Formatting
- Tables

Questions may require the student to do all of the above and:
- Create and format more complex tables
- Use tabs, line spacing
- Create and use hyperlinks
- Use concept mapping and brainstorming software

AREAS:
- Advanced Operations
- Presentations with Effects
- Integrated Multimedia
- Data Visualisation

Questions may require the student to do all of the above and:
- Insert links into presentations
- Investigate and use online presentations
- Select and use image capturing devices/formats: digital cameras, screenshots
- Interpret visual representation of data

AREAS:
- Web Design
- Internet Concepts
- Advanced Email
- Social Media
- Cyber safety
- Online Collaborative Projects

Questions may require the student to do all of the above and:
- Append and edit signature related to email
- Recognise spam/security threats
- Append and send hyperlinks
- Apply understanding about Internet structure: delays in sending/receiving; can't find page message; etc.
- Create and use basic website
- Use HTML editor
- Recognise file formats
- Manage and maintain collaborative spaces
- Make responsible and ethical decisions in the use of online data and information

AREAS:
- Common Operations
- Database Concepts

Questions may require the student to do all of the above and:
- Investigate formulas
- Conduct complex sorts
- Format dates; numbers
- Apply filters
- Recognise purpose of different views of databases

AREAS:
- Basic Programming Principles
- Basic Programming Concepts

Questions may require the student to do all of the above and:
- Recognise sequence and loops in pseudocode
- Recognise simple algorithms
- Conduct desk checking using test data

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PAPER G & H

GENERAL SKILLS	WORD PROCESSING	GRAPHICS & MULTIMEDIA	INTERNET & EMAIL	SPREADSHEETS & DATABASES	PROGRAMMING & SCRIPTING
AREAS: • Information Systems including hardware, software and data • Cloud Computing • Data Representation e.g. Binary • Operating Systems • Maintenance of IT Systems **Questions may require the student to do all of the above and:** • Identify and define connectivity: Wireless; Bluetooth; broadband; dial up • Investigate and define the use of Cloud Computing • Apply conventions related to ethical use of data and information	**AREAS:** • Advanced Operations • Advanced Formatting • Tables **Questions may require the student to do all of the above and:** • Recognise and use outlines, style sheets • Insert images into tables • Apply animation to text • Use track changes • Use insert references • Use project planning software	**AREAS:** • Advanced Operations • Advanced Presentations • Integrated Multimedia • Data visualisation **Questions may require the student to do all of the above and:** • Recognise image/audio file formats • Use online presentations • Demonstrate aesthetic judgement in use of tools for image creation and manipulation • Interpret and use visual representation of data	**AREAS:** • Web Design • Internet Concepts • Advanced Email • Social Media • Cyber Safety • Online Collaborative Projects **Questions may require the student to do all of the above and:** • Recognise the purpose and creation of distribution lists • Use bcc • Recognise basic file transfer • Use complex security settings for collaborative spaces and online sites • Apply agreed ethical, social and technical protocols in the use of emails and internet	**AREAS:** • Advanced Operations • Database Concepts **Questions may require the student to do all of the above and:** • Apply absolute/relative/circular references in spreadsheets • Create 'if statement' formulas • Create and present complex graphs/charts/tables • Recognise and use multiple spreadsheets • Apply and identify mail merge fields and functions	**AREAS:** • Programming Principles • Programming Concepts **Questions may require the student to do all of the above and:** • Recognise and understand sequence; conditionals; loops in pseudocode and algorithms represented diagrammatically • Recognise and use simple algorithms • Identify variables; events • Conduct desk checking using test data • Use structured English to express algorithmic instructions

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