Reach. | ICAS.

Digital Technologies
Assessment Framework

INTRO (ICAS ONLY)

DIGITAL SYSTEMS	WORD PROCESSING	GRAPHICS & MULTIMEDIA	INTERNET & EMAIL	SPREADSHEETS & DATABASES	PROGRAMMING

AREAS:

DIGITAL SYSTEMS	WORD PROCESSING	GRAPHICS & MULTIMEDIA	INTERNET & EMAIL	SPREADSHEETS & DATABASES	PROGRAMMING
• Digital Systems, including hardware and software • Peripheral Devices • Basic Terminology	• Basic Operations • Simple Formatting	• Basic Operations • Simple Presentations • Common Multimedia	• Basic Web Concepts • Email Fundamentals • Cyber Safety • Online Collaborative Platforms	• Basic Operations • Spreadsheet Fundamentals	• Basic coding concepts

QUESTIONS MAY REQUIRE THE STUDENT TO:

DIGITAL SYSTEMS	WORD PROCESSING	GRAPHICS & MULTIMEDIA	INTERNET & EMAIL	SPREADSHEETS & DATABASES	PROGRAMMING
• Identify components of digital systems • Distinguish what is software/ hardware • Identify/recognise components of the menu bars, etc. • Identify and use basic terminology	• Create a new document: enter text, delete, save, and save as functions • Use basic edit features such as: cut, copy, paste • Identify features such as: tool bar, menus, icons, cursor • Apply basic formatting including: font format and text alignment • Use dictionary including spell check	• 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 slideshow presentations	• Understand the basic structure of an email • Send, receive and reply to email • Identify components of a web browser • Apply simple search terms and conventions • Locate web address	• Collect and organise data • Recognise structure and purpose • Understand structure and purpose • Interpret simple graphical representations of data • Conduct a search in a simple database	• Decipher using a given code • Recognise sequence in a set of instructions

DIO - 191220

ICAS assessments

Reach. | ICAS.

Digital Technologies
Assessment Framework

PAPERS A & B

DIGITAL SYSTEMS	WORD PROCESSING	GRAPHICS & MULTIMEDIA	INTERNET & EMAIL	SPREADSHEETS & DATABASES	PROGRAMMING
AREAS:					
• Digital Systems, including hardware and software • Peripheral Devices • Basic Terminology	• Basic Operations • Simple Formatting	• Basic Operations • Simple Presentations • Common Multimedia	• Basic Web Concepts • Email Fundamentals • Social Media • Cyber Safety • Online Collaborative Platforms	• Basic Operations • Spreadsheet Fundamentals	• Basic coding concepts • 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	• 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	• 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 slideshow presentations	• 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	• 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	• Recognise sequence in basic block-based coding

DIO - 191220

ICAS assessments

PAPERS C & D

DIGITAL SYSTEMS	WORD PROCESSING	GRAPHICS & MULTIMEDIA	INTERNET & EMAIL	SPREADSHEETS & DATABASES	PROGRAMMING

AREAS:

DIGITAL SYSTEMS	WORD PROCESSING	GRAPHICS & MULTIMEDIA	INTERNET & EMAIL	SPREADSHEETS & DATABASES	PROGRAMMING
• Digital Systems, including hardware and software • Common Terminology • Peripheral Devices	• Common Operations • Formatting • Tables	• Common Operations • Presentations with Effects • Common Multimedia	• Web Concepts • Internet Use • Email Fundamentals • Social Media • Cyber Safety • Online Collaborative Spaces	• Common Operations • Database Fundamentals	• Block-based Coding • Simple Algorithm

QUESTIONS MAY REQUIRE THE STUDENT TO:

DIGITAL SYSTEMS	WORD PROCESSING	GRAPHICS & MULTIMEDIA	INTERNET & EMAIL	SPREADSHEETS & DATABASES	PROGRAMMING
• 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	• Use Find and Replace • Justify text • Import and paste images • Create and format simple tables • Use toolbars • Use thesaurus	• 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	• 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	• 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	• Recognise simple algorithms • Recognise sequence and loops in pseudocode

ICAS assessments

PAPERS E & F (PAPER F – REACH ONLY)

DIGITAL SYSTEMS	WORD PROCESSING	GRAPHICS & MULTIMEDIA	INTERNET & EMAIL	SPREADSHEETS & DATABASES	PROGRAMMING
AREAS:					
• Digital Systems, including hardware and software • Basic Operating Systems • Maintenance	• Advanced Operations • Formatting • Tables	• Advanced Operations • Presentations with Effects • Integrated Multimedia • Data Visualisation	• Web Design • Internet Concepts • Advanced Email • Social Media • Cyber safety • Online Collaborative Projects	• Common Operations • Database Concepts	• Basic Programming Principles • Basic Programming Concepts

QUESTIONS MAY REQUIRE THE STUDENT TO:

DIGITAL SYSTEMS	WORD PROCESSING	GRAPHICS & MULTIMEDIA	INTERNET & EMAIL	SPREADSHEETS & DATABASES	PROGRAMMING
• 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	• Create and format more complex tables • Use tabs, line spacing • Create and use hyperlinks • Use concept mapping and brainstorming software	• Insert links into presentations • Investigate and use online presentations • Select and use image capturing devices/formats: digital cameras, screenshots • Interpret visual representation of data	• 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	• Investigate formulas • Conduct complex sorts • Format dates; numbers • Apply filters • Recognise purpose of different views of databases	• Recognise sequence and loops in pseudocode • Recognise simple algorithms • Conduct desk checking using test data

DIO - 191220

ICAS assessments

PAPERS G & H (REACH ONLY)

DIGITAL SYSTEMS	WORD PROCESSING	GRAPHICS & MULTIMEDIA	INTERNET & EMAIL	SPREADSHEETS & DATABASES	PROGRAMMING
AREAS:					
• Information Systems including hardware, software and data • Cloud Computing • Data Representation e.g. Binary • Operating Systems • Maintenance of IT Systems	• Advanced Operations • Advanced Formatting • Tables	• Advanced Operations • Advanced Presentations • Integrated Multimedia • Data visualisation	• Web Design • Internet Concepts • Advanced Email • Social Media • Cyber Safety • Online Collaborative Projects	• Advanced Operations • Database Concepts	• Programming Principles • Programming Concepts
QUESTIONS MAY REQUIRE THE STUDENT TO:					
• 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	• Recognise and use outlines, style sheets • Insert images into tables • Apply animation to text • Use track changes • Use insert references • Use project planning software	• 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	• 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	• 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	• 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

ICAS assessments