

DIGITAL TECHNOLOGIES: CREATE A DIGITAL INFORMATION OUTCOME

Apply digital information management tools to create a digital information outcome requires students to create a digital information outcome that involves manipulating and combining data from more than one application. The specifications for the digital information outcome, software and techniques to be used need to be determined prior to the outcome being made.

When creating digital information outcomes students will use appropriate techniques and data integrity and testing procedures. Students will apply appropriate file management procedures, design elements, and formatting techniques. Students will consider their legal, ethical, and moral responsibilities when developing digital information outcomes.

Initially students learn to perform a set of basic procedures, as instructed, to produce a digital information outcome that involves manipulating and combining data from at least two applications out of word processing, spreadsheets, database, and presentation software. Students should progress to using complex procedures to design and produce a database application with dynamically linked data.

	LEVEL 6	LEVEL 7	LEVEL 8
LO	<i>Implement basic procedures to create a digital information outcome</i>	<i>Implement advanced procedures to create a digital information outcome with dynamically linked data</i>	<i>Implement complex procedures to develop a relational database embedded in a specified digital outcome</i>
TEACHER GUIDANCE	<p>To support students to implement basic procedures to produce a digital information outcome, at level 6, teachers could:</p> <ul style="list-style-type: none"> • Provide an opportunity for students to learn and practice a range of basic procedures in at least two software application types from word processing, spreadsheets, database, and presentation. • Provide a brief for a specified digital information outcome, or guide students to develop their own brief. • Ensure students are aware of the requirement at this level to produce an outcome that results from manipulating and combining data from at least two of the software application types listed above. • Support students to apply appropriate file management procedures when developing digital information outcomes • Support students to apply design elements and formatting techniques as they develop digital information outcomes • Support students to apply data integrity and testing procedures as they develop digital information outcomes. • Support students to understand their legal, ethical, and moral responsibilities when developing digital information outcomes. 	<p>To support students to implement advanced procedures to produce a digital information outcome, at level 7, teachers could:</p> <ul style="list-style-type: none"> • Provide an opportunity for students to learn and practice a range of advanced procedures in a database and at least one other software application. • Provide a brief for a specified digital information outcome, or guide students to develop their own brief. • Ensure students are aware of the requirement at this level to produce an outcome that integrates data from a database and at least one other application using dynamic linking. • Ensure students apply design elements and formatting techniques accurately and independently as they develop digital information outcomes. • Ensure students apply data integrity and testing procedures as they develop digital information outcomes. • Ensure students understand their legal, ethical, and moral responsibilities when developing digital information outcomes in terms of the social implications of the outcome within an organisation and the wider community. 	<p>To support students to implement complex procedures to develop a relational database embedded in a specified digital outcome, at level 8, teachers could:</p> <ul style="list-style-type: none"> • Provide an opportunity for students to learn and practice a range of complex procedures in a relational database. • Provide opportunities for students to develop skills in Entity Relationships (ERD) and normalisation. • Ensure students know how to allow data in at least one database table to be changed from another application. • Provide a brief for a specified digital outcome, or guide students to develop their own brief. • Ensure students are aware of the requirement at this level to produce a relational database with a well organised table structure and where data in at least one database table is changed using another application. • Ensure students apply design elements and formatting techniques as appropriate to the outcome they develop to create an interface for navigation, collection and display of data which demonstrates usability considerations. • Ensure students apply data integrity and testing procedures as they develop the digital outcomes. • Ensure students can apply data access permissions which show they understand their legal, ethical, and moral responsibilities when developing digital information outcomes.
INDICATORS	<p>Students can:</p> <ul style="list-style-type: none"> • select appropriate software and apply basic techniques to produce a specified digital information outcome that meets specifications and involves manipulating and combining data from at least two software applications out of word processing, spreadsheets, database, and presentation • apply appropriate file management procedures • apply appropriate design elements and/or formatting techniques • show accuracy in the application of techniques and testing procedures • show independence with regard to decision making in the application of techniques, and testing procedures. • undertake techniques and testing procedures in a manner that economises the use of resources in the outcome's production and its use • follow legal, ethical and moral responsibilities as appropriate to the outcome. 	<p>Students can:</p> <ul style="list-style-type: none"> • apply advanced techniques to produce a specified digital information outcome that meets specifications and integrates data from a database and one other application using dynamic linking • apply appropriate design elements and/or formatting techniques • show accuracy in the application of techniques, design elements, and testing procedures • show independence with regard to decision making in the application of techniques, design elements, and testing procedures. • undertake techniques and testing procedures in a manner that economises the use of resources in the outcome's production and its use • follow legal, ethical and moral responsibilities as appropriate to the outcome by considering the social implications of the outcome within an organisation and the wider community. 	<p>Students can:</p> <ul style="list-style-type: none"> • apply complex techniques to design and produce a relational database embedded in a specified digital outcome that has a well-organised table structure use features of the software to allow data in at least one database table to be changed using another application • apply design elements and formatting techniques as appropriate to the outcome to create an interface for navigation, collection and display of data which demonstrates usability considerations • show accuracy in the application of techniques and testing procedures • show independence with regard to decision making in the application of techniques, and testing procedures. • undertake techniques and testing procedures in a manner that economises the use of resources in the outcome's production and its use • apply data access permissions which follow legal, ethical and moral responsibilities as appropriate to the outcome.
AS	AS91071 Digital Technologies 1.41 <i>Implement basic procedures to produce a specified digital information outcome</i>	AS91368 Digital Technologies 2.41 <i>Implement advanced procedures to produce a specified digital information outcome with dynamically linked data</i>	AS91633 Digital Technologies 3.41 <i>Implement complex procedures to develop a relational database embedded in a specified digital outcome</i>
	Level 1 Digital Technologies standards & assessment resources	Level 2 Digital Technologies standards & assessment resources	Level 3 Technology achievement standards & assessment resources DRAFT