Texas

TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement
(1) Creativity and innovation. The student uses creative thinking and innovative processes to construct knowledge, generate new ideas, and create products. The student is expected to:	(A) identify, create, and use files in various formats including text, raster and vector graphics, video, and audio files	(vii) create files in various formats including raster graphics files		
(1) Creativity and innovation. The student uses creative thinking and innovative processes to construct knowledge, generate new ideas, and create products. The student is expected to:	(A) identify, create, and use files in various formats including text, raster and vector graphics, video, and audio files	(viii) create files in various formats including vector graphics files		
(1) Creativity and innovation. The student uses creative thinking and innovative processes to construct knowledge, generate new ideas, and create products. The student is expected to:	(A) identify, create, and use files in various formats including text, raster and vector graphics, video, and audio files	(ix) create files in various formats including video files		
(1) Creativity and innovation. The student uses creative thinking and innovative processes to construct knowledge, generate new ideas, and create products. The student is expected to:	(A) identify, create, and use files in various formats including text, raster and vector graphics, video, and audio files	(x) create files in various formats including audio files		

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(1) Creativity and innovation. The student uses creative thinking and innovative processes to construct knowledge, generate new ideas, and create products. The student is expected to:	(A) identify, create, and use files in various formats including text, raster and vector graphics, video, and audio files	(xi) use files in various formats including text files		
(1) Creativity and innovation. The student uses creative thinking and innovative processes to construct knowledge, generate new ideas, and create products. The student is expected to:	(A) identify, create, and use files in various formats including text, raster and vector graphics, video, and audio files	(xii) use files in various formats including raster graphics files		
(1) Creativity and innovation. The student uses creative thinking and innovative processes to construct knowledge, generate new ideas, and create products. The student is expected to:	(A) identify, create, and use files in various formats including text, raster and vector graphics, video, and audio files	(xiii) use files in various formats including vector graphics files		
(1) Creativity and innovation. The student uses creative thinking and innovative processes to construct knowledge, generate new ideas, and create products. The student is expected to:	(A) identify, create, and use files in various formats including text, raster and vector graphics, video, and audio files	(xiv) use files in various formats including video files		

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(1) Creativity and innovation. The student uses creative thinking and innovative processes to construct knowledge, generate new ideas, and create products. The student is expected to:	(A) identify, create, and use files in various formats including text, raster and vector graphics, video, and audio files	(xv) use files in various formats including audio files		
(1) Creativity and innovation. The student uses creative thinking and innovative processes to construct knowledge, generate new ideas, and create products. The student is expected to:	(B) create, present, and publish original works as a means of personal or group expression	(i) create original works as a means of personal or group expression		
(1) Creativity and innovation. The student uses creative thinking and innovative processes to construct knowledge, generate new ideas, and create products. The student is expected to:	(B) create, present, and publish original works as a means of personal or group expression	(ii) present original works as a means of personal or group expression		
(1) Creativity and innovation. The student uses creative thinking and innovative processes to construct knowledge, generate new ideas, and create products. The student is expected to:	(B) create, present, and publish original works as a means of personal or group expression	(iii) publish original works as a means of personal or group expression		

TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement
(1) Creativity and innovation. The student uses creative thinking and innovative processes to construct knowledge, generate new ideas, and create products. The student is expected to:	(C) explore complex systems or issues using models, simulations, and new technologies to develop hypotheses, modify input, and analyze results	(i) explore complex systems or issues using models to develop hypotheses		
(1) Creativity and innovation. The student uses creative thinking and innovative processes to construct knowledge, generate new ideas, and create products. The student is expected to:	(C) explore complex systems or issues using models, simulations, and new technologies to develop hypotheses, modify input, and analyze results	(ii) explore complex systems or issues using models to modify input		
(1) Creativity and innovation. The student uses creative thinking and innovative processes to construct knowledge, generate new ideas, and create products. The student is expected to:	(C) explore complex systems or issues using models, simulations, and new technologies to develop hypotheses, modify input, and analyze results	(iii) explore complex systems or issues using models to analyze results		
(1) Creativity and innovation. The student uses creative thinking and innovative processes to construct knowledge, generate new ideas, and create products. The student is expected to:	(C) explore complex systems or issues using models, simulations, and new technologies to develop hypotheses, modify input, and analyze results	(iv) explore complex systems or issues using simulations to develop hypotheses		

TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement
(1) Creativity and innovation. The student uses creative thinking and innovative processes to construct knowledge, generate new ideas, and create products. The student is expected to:	(C) explore complex systems or issues using models, simulations, and new technologies to develop hypotheses, modify input, and analyze results	(v) explore complex systems or issues using simulations to modify input		
(1) Creativity and innovation. The student uses creative thinking and innovative processes to construct knowledge, generate new ideas, and create products. The student is expected to:	(C) explore complex systems or issues using models, simulations, and new technologies to develop hypotheses, modify input, and analyze results	(vi) explore complex systems or issues using simulations to analyze results		
(1) Creativity and innovation. The student uses creative thinking and innovative processes to construct knowledge, generate new ideas, and create products. The student is expected to:	(C) explore complex systems or issues using models, simulations, and new technologies to develop hypotheses, modify input, and analyze results	(vii) explore complex systems or issues using new technologies to develop hypotheses		
(1) Creativity and innovation. The student uses creative thinking and innovative processes to construct knowledge, generate new ideas, and create products. The student is expected to:	(C) explore complex systems or issues using models, simulations, and new technologies to develop hypotheses, modify input, and analyze results	(viii) explore complex systems or issues using new technologies to modify input		

TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement
(1) Creativity and innovation. The student uses creative thinking and innovative processes to construct knowledge, generate new ideas, and create products. The student is expected to:	(C) explore complex systems or issues using models, simulations, and new technologies to develop hypotheses, modify input, and analyze results	(ix) explore complex systems or issues using new technologies to analyze results		
(1) Creativity and innovation. The student uses creative thinking and innovative processes to construct knowledge, generate new ideas, and create products. The student is expected to:	(D) analyze trends and forecast possibilities	(i) analyze trends		
(1) Creativity and innovation. The student uses creative thinking and innovative processes to construct knowledge, generate new ideas, and create products. The student is expected to:	(D) analyze trends and forecast possibilities	(ii) forecast possibilities		
(2) Communication and collaboration. The student collaborates and communicates both locally and globally to reinforce and promote learning. The student is expected to:	(A) create and manage personal learning networks to collaborate and publish with peers, experts, or others using digital tools such as blogs, wikis, audio/video communication, or other emerging technologies	(i) create personal learning networks to collaborate with peers, experts, or others using digital tools		

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(2) Communication and collaboration. The student collaborates and communicates both locally and globally to reinforce and promote learning. The student is expected to:	(B) communicate effectively with multiple audiences using a variety of media and formats	(ii) communicate effectively with multiple audiences using a variety of formats		
(2) Communication and collaboration. The student collaborates and communicates both locally and globally to reinforce and promote learning. The student is expected to:	(C) create and publish products using technical writing strategies	(i) create products using technical writing strategies		
(2) Communication and collaboration. The student collaborates and communicates both locally and globally to reinforce and promote learning. The student is expected to:	(C) create and publish products using technical writing strategies	(ii) publish products using technical writing strategies		
(3) Research and information fluency. The student acquires, analyzes, and manages content from digital resources. The student is expected to:	(A) create a research plan to guide inquiry			
(3) Research and information fluency. The student acquires, analyzes, and manages content from digital resources. The student is expected to:	(B) plan, use, and evaluate various search strategies, including keyword(s) and Boolean operators	(i) plan various search strategies including keyword(s)		

TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement
(3) Research and information fluency. The student acquires, analyzes, and manages content from digital resources. The student is expected to:	(C) select and evaluate various types of digital resources for accuracy and validity	(i) select various types of digital resources for accuracy		
(3) Research and information fluency. The student acquires, analyzes, and manages content from digital resources. The student is expected to:	(C) select and evaluate various types of digital resources for accuracy and validity	(ii) select various types of digital resources for validity		
(3) Research and information fluency. The student acquires, analyzes, and manages content from digital resources. The student is expected to:	(C) select and evaluate various types of digital resources for accuracy and validity	(iii) evaluate various types of digital resources for accuracy		
(3) Research and information fluency. The student acquires, analyzes, and manages content from digital resources. The student is expected to:	(C) select and evaluate various types of digital resources for accuracy and validity	(iv) evaluate various types of digital resources for validity		
(3) Research and information fluency. The student acquires, analyzes, and manages content from digital resources. The student is expected to:	(D) process data and communicate results	(i) process data		

TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement
(3) Research and information fluency. The student acquires, analyzes, and manages content from digital resources. The student is expected to:	(D) process data and communicate results	(ii) communicate results		
(4) Critical thinking, problem solving, and decision making. The student makes informed decisions by applying critical-thinking and problem-solving skills. The student is expected to:	(A) identify and define relevant problems and significant questions for investigation	(i) identify relevant problems for investigation		
(4) Critical thinking, problem solving, and decision making. The student makes informed decisions by applying critical-thinking and problem-solving skills. The student is expected to:	(A) identify and define relevant problems and significant questions for investigation	(ii) identify significant questions for investigation		
(4) Critical thinking, problem solving, and decision making. The student makes informed decisions by applying critical-thinking and problem-solving skills. The student is expected to:	(A) identify and define relevant problems and significant questions for investigation	(iii) define relevant problems for investigation		

TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement
(4) Critical thinking, problem solving, and decision making. The student makes informed decisions by applying critical-thinking and problem-solving skills. The student is expected to:	(A) identify and define relevant problems and significant questions for investigation	(iv) define significant questions for investigation		
(4) Critical thinking, problem solving, and decision making. The student makes informed decisions by applying critical-thinking and problem-solving skills. The student is expected to:	(B) plan and manage activities to develop a solution, design a computer program, or complete a project	(i) plan activities to develop a solution, design a computer program, or complete a project		
(4) Critical thinking, problem solving, and decision making. The student makes informed decisions by applying critical-thinking and problem-solving skills. The student is expected to:	(B) plan and manage activities to develop a solution, design a computer program, or complete a project	(ii) manage activities to develop a solution, design a computer program, or complete a project		
(4) Critical thinking, problem solving, and decision making. The student makes informed decisions by applying critical-thinking and problem-solving skills. The student is expected to:	(C) collect and analyze data to identify solutions and make informed decisions	(i) collect data to identify solutions		

TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement
(5) Digital citizenship. The student practices safe, responsible, legal, and ethical behavior while using technology tools and resources. The student is expected to:	(A) understand, explain, and practice copyright principles including current laws, fair use guidelines, creative commons, open source, and public domain	(i) understand copyright principles including current laws		
(5) Digital citizenship. The student practices safe, responsible, legal, and ethical behavior while using technology tools and resources. The student is expected to:	(A) understand, explain, and practice copyright principles including current laws, fair use guidelines, creative commons, open source, and public domain	(ii) explain copyright principles including current laws		
(5) Digital citizenship. The student practices safe, responsible, legal, and ethical behavior while using technology tools and resources. The student is expected to:	(A) understand, explain, and practice copyright principles including current laws, fair use guidelines, creative commons, open source, and public domain	(iii) practice copyright principles including current laws		
(5) Digital citizenship. The student practices safe, responsible, legal, and ethical behavior while using technology tools and resources. The student is expected to:	(A) understand, explain, and practice copyright principles including current laws, fair use guidelines, creative commons, open source, and public domain	(iv) understand copyright principles including fair use guidelines		
(5) Digital citizenship. The student practices safe, responsible, legal, and ethical behavior while using technology tools and resources. The student is expected to:	(A) understand, explain, and practice copyright principles including current laws, fair use guidelines, creative commons, open source, and public domain	(v) explain copyright principles including fair use guidelines		

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(5) Digital citizenship. The student practices safe, responsible, legal, and ethical behavior while using technology tools and resources. The student is expected to:	(A) understand, explain, and practice copyright principles including current laws, fair use guidelines, creative commons, open source, and public domain	(vi) practice copyright principles including fair use guidelines		
(5) Digital citizenship. The student practices safe, responsible, legal, and ethical behavior while using technology tools and resources. The student is expected to:	(A) understand, explain, and practice copyright principles including current laws, fair use guidelines, creative commons, open source, and public domain	(vii) understand copyright principles including creative commons		
(5) Digital citizenship. The student practices safe, responsible, legal, and ethical behavior while using technology tools and resources. The student is expected to:	(A) understand, explain, and practice copyright principles including current laws, fair use guidelines, creative commons, open source, and public domain	(viii) explain copyright principles including creative commons		
(5) Digital citizenship. The student practices safe, responsible, legal, and ethical behavior while using technology tools and resources. The student is expected to:	(A) understand, explain, and practice copyright principles including current laws, fair use guidelines, creative commons, open source, and public domain	(ix) practice copyright principles including creative commons		
(5) Digital citizenship. The student practices safe, responsible, legal, and ethical behavior while using technology tools and resources. The student is expected to:	(A) understand, explain, and practice copyright principles including current laws, fair use guidelines, creative commons, open source, and public domain	(x) understand copyright principles including open source		

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(5) Digital citizenship. The student practices safe, responsible, legal, and ethical behavior while using technology tools and resources. The student is expected to:				

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(5) Digital citizenship. The student practices safe, responsible, legal, and ethical behavior while using technology tools and resources. The student is expected to:	(D) understand and explain			

7 TEKS (Knowledge and Skills)	Student Expectation, d0 12(tool)bjEKaTTDut1,dE.12i(ts) Dpmataq/tentEN,dD.12isuch alSwaterme(R1,dE.12iide			
(5) Digital citizenship. The student practices safe, responsible, legal, and ethical behavior while using technology tools and resources. The student is expected to:	(D) undernEMC /TD AMCAamal	Proclamation 2014		

TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement
(5) Digital citizenship. The student practices safe, responsible, legal, and ethical behavior while using technology tools and resources. The student is expected to:	(D) understand and explain the negative impact of inappropriate technology use, including online bullying and harassment, hacking, intentional virus setting, invasion of privacy, and piracy such as software, music, video, and other media	(ix) understand the negative impact of inappropriate technology use, including invasion of privacy		
(5) Digital citizenship. The student practices safe, responsible, legal, and ethical behavior while using technology tools and resources. The student is expected to:	(D) understand and explain the negative impact of inappropriate technology use, including online bullying and harassment, hacking, intentional virus setting, invasion of privacy, and piracy such as software, music, video, and other media	(x) explain the negative impact of inappropriate technology use, including invasion of privacy		
(5) Digital citizenship. The student practices safe, responsible, legal, and ethical behavior while using technology tools and resources. The student is expected to:	(D) understand and explain the negative impact of inappropriate technology use, including online bullying and harassment, hacking, intentional virus setting, invasion of privacy, and piracy such as software, music, video, and other media	(xi) understand the negative impact of inappropriate technology use, including piracy		

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(5) Digital citizenship. The student practices safe, responsible, legal, and ethical behavior while using technology tools and resources. The student is expected to:	(D) understand and explain the negative impact of inappropriate technology use, including online bullying and harassment, hacking, intentional virus setting, invasion of privacy, and piracy such as software, music, video, and other media	(xii) explain the negative impact of inappropriate technology use, including piracy		
(6) Technology operations and concepts. The student demonstrates a thorough understanding of technology concepts, systems, and operations. The student is expected to:	(A) define and use current technology terminology appropriately	(i) define current technology terminology appropriately		
(6) Technology operations and concepts. The student demonstrates a thorough understanding of technology concepts, systems, and operations. The student is expected to:	(A) define and use current technology terminology appropriately	(ii) use current technology terminology appropriately		
(6) Technology operations and concepts. The student demonstrates a thorough understanding of technology concepts, systems, and operations. The student is expected to:	(B) evaluate and select technology tools based on licensing, application, and support	(i) evaluate technology tools based on licensing		

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(6) Technology operations and concepts. The student demonstrates a thorough understanding of technology concepts, systems, and operations. The student is expected to:	(B) evaluate and select technology tools based on licensing, application, and support	(ii) evaluate technology tools based on application		
(6) Technology operations and concepts. The student demonstrates a thorough understanding of technology concepts, systems, and operations. The student is expected to:	(B) evaluate and select technology tools based on licensing, application, and support	(iii) evaluate technology tools based on support		
(6) Technology operations and concepts. The student demonstrates a thorough understanding of technology concepts, systems, and operations. The student is expected to:	(B) evaluate and select technology tools based on licensing, application, and support	(iv) select technology tools based on licensing		
(6) Technology operations and concepts. The student demonstrates a thorough understanding of technology concepts, systems, and operations. The student is expected to:	(B) evaluate and select technology tools based on licensing, application, and support	(v) select technology tools based on application		

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(6) Technology operations and concepts. The student demonstrates a thorough understanding of technology concepts, systems, and operations. The student is expected to:	(B) evaluate and select technology tools based on licensing, application, and support	(vi) select technology tools based on support		
(6) Technology operations and concepts. The student demonstrates a thorough understanding of technology concepts, systems, and operations. The student is expected to:	(C) identify, understand, and use operating systems	(i) identify operating systems		
(6) Technology operations and concepts. The student demonstrates a thorough understanding of technology concepts, systems, and operations. The student is expected to:	(C) identify, understand, and use operating systems	(ii) understand operating systems		
(6) Technology operations and concepts. The student demonstrates a thorough understanding of technology concepts, systems, and operations. The student is expected to:	(C) identify, understand, and use operating systems	(iii) use operating systems		

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(6) Technology operations and concepts. The student demonstrates a thorough understanding of technology concepts, systems, and operations. The student is expected to:	(F) apply troubleshooting techniques, including restarting systems, checking power issues, resolving software compatibility, verifying network connectivity, connecting to remote resources, and modifying display properties	(v) apply troubleshooting techniques, including connecting to remote resources		
(6) Technology operations and concepts. The student demonstrates a thorough understanding of technology concepts, systems, and operations. The student is expected to:	(F) apply troubleshooting techniques, including restarting systems, checking power issues, resolving software compatibility, verifying network connectivity, connecting to remote resources, and modifying display properties	(vi) apply troubleshooting techniques, including modifying display properties		
(6) Technology operations and concepts. The student demonstrates a thorough understanding of technology concepts, systems, and operations. The student is expected to:	(G) implement effective file management strategies such as file naming conventions, location, backup, hierarchy, folder structure, file conversion, tags, labels, and emerging digital organizational strategies	(i) implement effective file management strategies		

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(6) Technology operations and concepts. The student demonstrates a thorough understanding of technology concepts, systems, and operations. The student is expected to:	(K) use keyboarding techniques and ergonomic strategies while building speed and accuracy	(ii) use keyboarding techniques while building accuracy		
(6) Technology operations and concepts. The student demonstrates a thorough understanding of technology concepts, systems, and operations. The student is expected to:	(K) use keyboarding techniques and ergonomic strategies while building speed and accuracy	(iii) use ergonomic strategies while building speed		
(6) Technology operations and concepts. The student demonstrates a thorough understanding of technology concepts, systems, and operations. The student is expected to:	(K) use keyboarding techniques and ergonomic strategies while building speed and accuracy	(iv) use ergonomic strategies while building accuracy		

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(6) Technology operations and concepts. The student demonstrates a thorough understanding of technology concepts, systems, and operations. The student is expected to:	(L) create and edit files with productivity tools including: (i) a word processing document using digital typography standards such as page layout, font formatting, paragraph formatting, mail merge, and list attributes; (ii) a spreadsheet workbook using advanced computational and graphic components such as complex formulas, advanced functions, data types, and chart generation; (iii) a database by manipulating components including defining fields, entering data, and designing layouts appropriate for reporting; (iv) digital publications using relevant publication standards and graphic design principles	(i) create files with productivity tools including a word processing document using digital typography standards		

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(6) Technology operations and concepts. The student demonstrates a thorough understanding of technology concepts, systems, and operations. The student is expected to:	(L) create and edit files with productivity tools including: (i) a word processing document using digital typography standards such as page layout, font formatting, paragraph formatting, mail merge, and list attributes; (ii) a spreadsheet workbook using advanced computational and graphic components such as complex formulas, advanced functions, data types, and chart generation; (iii) a database by manipulating components including defining fields, entering data, and designing layouts appropriate for reporting; (iv) digital publications using relevant publication standards and graphic design principles	(ii) create files with productivity tools including a spreadsheet workbook using advanced computational components		

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(6) Technology operations and concepts. The student demonstrates a thorough understanding of technology concepts, systems, and operations. The student is expected to:	(L) create and edit files with productivity tools including: (i) a word processing document using digital typography standards such as page layout, font formatting, paragraph formatting, mail merge, and list attributes; (ii) a spreadsheet workbook using advanced computational and graphic components such as			

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(6) Technology operations and concepts. The student demonstrates a thorough understanding of technology adata typegm T-CID 2 oncepts.	The chart f(241 TD;Tjiii/MCa-mMR	gm Tdatabase bydmanipulat)	TjID 2of tenmpontras inclu	

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(6) Technology operations and concepts. The student demonstrates a thorough understanding of technology concepts, systems, and operations. The student is expected to:	(L) create and edit files with productivity tools including: (i) a word processing document using digital typography standards such as page layout, font formatting, paragraph formatting, mail merge, and list attributes; (ii) a spreadsheet workbook using advanced computational and graphic components such as complex formulas, advanced functions, data types, and chart generation; (iii) a database by manipulating components including defining fields, entering data, and designing layouts appropriate for reporting; (iv) digital publications using relevant publication standards and graphic design principles	(vii) create files with productivity tools including a digital publications using relevant publication standards		

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(6) Technology operations and concepts. The student demonstrates a thorough understanding of technology concepts, systems, and operations. The student is expected to:	(L) create and edit files with productivity tools including: (i) a word processing document using digital typography standards such as page layout, font formatting, paragraph formatting, mail merge, and list attributes; (ii) a spreadsheet workbook using advanced computational and graphic components such as complex formulas, advanced functions, data types, and chart generation; (iii) a database by manipulating components including defining fields, entering data, and designing layouts appropriate for reporting; (iv) digital publications using relevant publication standards and graphic design principles	(xiii) edit files with productivity tools including a database by manipulating components, including entering data		

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(6) Technology operations and concepts. The student demonstrates a thorough understanding of technology concepts, systems, and operations. The student is expected to:	(L) create and edit files with productivity tools including: (i) a word processing document using digital typography standards such as page layout, font formatting, paragraph formatting, mail merge, and list attributes; (ii) a spreadsheet workbook using advanced computational and graphic components such as complex formulas, advanced functions, data types, and chart generation; (iii) a database by manipulating components including defining fields, entering data, and designing layouts appropriate for reporting; (iv) digital publications using relevant publication standards and graphic design principles	(xvi) edit files with productivity tools including a digital publications using graphic design principles		
(6) Technology operations and concepts. The student demonstrates a thorough understanding of technology concepts, systems, and operations. The student is expected to:	(M) plan and create non-linear media projects using graphic design principles	(i) plan non-linear media projects using graphic design principles		