

Rule Text	TEKS Notation	Technology Applications TEKS	Connections	Science Connections	Mathematics Connections	Social Studies Connections	English Language Arts and Reading Connections	Health Connections	Fine Arts Connections	Languages Other Than English Connections	Physical Education Connections
126.18.c.1	7.1	<i>Computational thinking</i> —foundations. The student explores the core concepts of computational thinking, a set of problem-solving processes that involve decomposition, pattern recognition, abstraction, and algorithms.	A knowledge and skills statement is a broad statement of what students must know and be able to do.								
126.18.c.1.A	7.1.A	decompose real-world problems into structured parts using flowcharts	Direct alignment between student expectations	Science.7.1.B use scientific practices to plan and conduct descriptive, comparative, and experimental investigations and use engineering practices to design solutions to problems	Math.7.1.B use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness of the solution	SS.7.23.B use problem-solving and decision-making processes to identify a problem, gather information, list and consider options, consider advantages and disadvantages, choose and implement a solution, and evaluate the effectiveness of the solution					
			Use this space to identify additional connections between technology applications standards and other content standards. Some illustrative examples are provided.	SS.6.20.C organize and interpret information from outlines, reports, databases, and visuals ELAR.7.12.B develop and revise a plan							
126.18.c.1.B	7.1.B	analyze the patterns and sequences found in flowcharts	Direct alignment between student expectations	Science.7.2.B analyze data by identifying any significant descriptive statistical features, patterns, sources of error, or limitations	Math.7.1.F analyze mathematical relationships to connect and communicate mathematical ideas	SS.7.20.C organize and interpret information from outlines, reports, databases, and visuals, including graphs, charts, timelines, and maps	ELAR.7.7.A infer multiple themes within and across texts using text evidence	Music.MS.1.1.D identify musical forms presented aurally and through music notation such as binary, ternary, phrasic, rondo, and theme and variations			
			Use this space to identify additional connections between technology applications standards and other content standards. Some illustrative examples are provided.	SS.7.21.A analyze and interpret geographic distributions and patterns in Texas during the 19th, 20th, and 21st centuries ELAR.7.8.D.iii organizational patterns that support multiple topics, categories, and subcategories							
126.18.c.1.C	7.1.C	identify abstraction and analyze how an algorithm the student created can be generalized to solve additional problems	Direct alignment between student expectations	Science.7.2.B analyze data by identifying any significant descriptive statistical features, patterns, sources of error, or limitations	Math.7.6.H solve problems using qualitative and quantitative predictions and comparisons from simple experiments						
			Use this space to identify additional connections between technology applications standards and other content standards. An illustrative example is provided	SS.7.23.B use problem-solving and decision-making processes to identify a problem, gather information, list and consider options, consider advantages and disadvantages, choose and implement a solution, and evaluate the effectiveness of the solution							
126.18.c.1.D	7.1.D	design a plan collaboratively using flowcharts to document a problem, possible solutions, and an expected timeline for the development of a coded solution	Direct alignment between student expectations	Science.7.1.B use scientific practices to plan and conduct descriptive, comparative, and experimental investigations and use engineering practices to design solutions to problems	Math.7.1.B use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness of the solution	SS.7.23.B Use problem-solving and decision-making processes to identify a problem, gather information, list and consider options, consider advantages and disadvantages, choose and implement a solution, and evaluate the effectiveness of the solution					
			Use this space to identify additional connections between technology applications standards and other content standards. An illustrative example is provided	ELAR.7.12.B develop and revise a plan							
			Use this space to identify additional connections between technology applications standards and other content standards. An illustrative example is provided								
126.18.c.1.E	7.1.E	analyze different techniques used in debugging and apply them to an algorithm	Direct alignment between student expectations	Science.7.2.B analyze data by identifying any significant descriptive statistical features, patterns, sources of error, or limitations	Math.7.1.B use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness of the solution	SS.7.23.B use problem-solving and decision-making processes to identify a problem, gather information, list and consider options, consider advantages and disadvantages, choose and implement a solution, and evaluate the effectiveness of the solution					

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126.18.c.1.F	7.1.F	analyze the benefits of using iteration (code and sequence repetition) in algorithms	Direct alignment between student expectations								
			Use this space to identify additional connections between technology applications standards and other content standards. An illustrative example is provided	Math.7.10.A write one-variable, two-step equations and inequalities to represent constraints or conditions within problems							
126.18.c.2	7.2	Computational thinking –applications. The student applies the fundamentals of computer science.	A knowledge and skills statement is a broad statement of what students must know and be able to do.								
126.18.c.2.A	7.2.A	manipulate and rename variables and describe different data types	Direct alignment between student expectations		Math.7.10.A write one-variable, two-step equations and inequalities to represent constraints or conditions within problems						
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126.18.c.2.B	7.2.B	use a software design process to create text-based programs with nested loops that address different subproblems within a real-world context	Direct alignment between student expectations	Science.7.1.B use scientific practices to plan and conduct descriptive, comparative, and experimental investigations and use engineering practices to design solutions to problems	Math.7.1.B use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness of the solution	SS.7.23.B use problem-solving and decision-making processes to identify a problem, gather information, list and consider options, consider advantages and disadvantages, choose and implement a solution, and evaluate the effectiveness of the solution					
			Use this space to identify additional connections between technology applications standards and other content standards. An illustrative example is provided	ELAR.7.12.B develop and revise a plan							
126.18.c.3	7.3	Creativity and Innovation –innovative design process. The student takes an active role in learning by using a design process and creative thinking to develop and evaluate solutions, considering a variety of local and global perspectives.	A knowledge and skills statement is a broad statement of what students must know and be able to do.								
126.18.c.3.A	7.3.A	resolve challenges in design processes independently using goal setting and personal character traits such as demonstrating responsibility and advocating for self appropriately	Direct alignment between student expectations		Math.7.1.G display, explain, and justify mathematical ideas and arguments using precise mathematical language in written or oral communication						

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			Use this space to identify additional connections between technology applications standards and other content standards. Some illustrative examples are provided.	Science.7.3.C engage respectfully in scientific argumentation using applied scientific explanations and empirical evidence ELAR.7.1.D engage in meaningful discourse and provide and accept constructive feedback from others							
126.18.c.3.B	7.3.B	discuss and implement a design process that includes planning and selecting digital tools to develop and refine a prototype or model through trial and error	Direct alignment between student expectations	Science.7.1.B use scientific practices to plan and conduct descriptive, comparative, and experimental investigations and use engineering practices to design solutions to problems	Math.7.1.B use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness of the solution	SS.7.23.B use problem-solving and decision-making processes to identify a problem, gather information, list and consider options, consider advantages and disadvantages, choose and implement a solution, and evaluate the effectiveness of the solution					
			Use this space to identify additional connections between technology applications standards and other content standards. An illustrative example is provided	ELAR.7.12.B develop and revise a plan							
126.18.c.3.C	7.3.C	identify how the design process is used in various industries	Direct alignment between student expectations					Theatre.MS.1.3.D use technology in theatrical applications such as live theatre, video, and film Theatre.MS.1.4.B explore the influences of theatre, film, television, and electronic media such as key developments, figures, and works in society			
			Use this space to identify additional connections between technology applications standards and other content standards. Some illustrative examples are provided.	Science.7.4.C research and explore resources such as museums, libraries, professional organizations, private companies, online platforms, and mentors employed in a science, technology, engineering, and mathematics (STEM) field to investigate STEM careers Math.7.1.A apply mathematics to problems arising in everyday life, society, and the workplace SS.7.12.C analyze the impact of significant industries in Texas such as aerospace, medical, and computer technologies on local, national, and international markets							
126.18.c.4	7.4	Creativity and Innovation –emerging technologies. The student demonstrates a thorough understanding of the role of technology throughout history and its impact on societies.	A knowledge and skills statement is a broad statement of what students must know and be able to do.								
126.18.c.4.A	7.4.A	explain how changes in technology throughout history have impacted various areas of study	Direct alignment between student expectations	Science.7.4.A relate the impact of past and current research on scientific thought and society, including the process of science, cost-benefit analysis, and contributions of diverse scientists as related to the content	Math.7.1.A apply mathematics to problems arising in everyday life, society, and the workplace Math.7.1.C select tools, including real objects, manipulatives, paper and pencil, and technology as appropriate, and techniques, including mental math, estimation, and number sense as appropriate, to solve problems	SS.7.19.A compare types and uses of technology, past and present SS.7.19.C analyze the effects of various scientific discoveries and technological innovations on the development of Texas such as advancements in the agricultural, energy, medical, computer, and aerospace industries SS.7.19.D evaluate the effects of scientific discoveries and technological innovations on the use of resources such as fossil fuels, water, and land			Theatre.MS.1.4.B explore the influences of theatre, film, television, and electronic media such as key developments, figures, and works in society		
			Use this space to identify additional connections between technology applications standards and other content standards.								
126.18.c.4.B	7.4.B	explain how global trends impact the development of technology	Direct alignment between student expectations	Science.7.4.A relate the impact of past and current research on scientific thought and society, including the process of science, cost-benefit analysis, and contributions of diverse scientists as related to the content	Math.7.1.A apply mathematics to problems arising in everyday life, society, and the workplace	SS.7.19.A compare types and uses of technology, past and present SS.7.19.C analyze the effects of various scientific discoveries and technological innovations on the development of Texas such as advancements in the agricultural, energy, medical, computer, and aerospace industries SS.7.19.D evaluate the effects of scientific discoveries and technological innovations on the use of resources such as fossil fuels, water, and land					

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126.18.c.4.C	7.4.C	transfer current knowledge to the learning of newly encountered technologies	Direct alignment between student expectations	Science.7.4.A relate the impact of past and current research on scientific thought and society, including the process of science, cost-benefit analysis, and contributions of diverse scientists as related to the content		SS.7.19.A compare types and uses of technology, past and present					
			Use this space to identify additional connections between technology applications standards and other content standards.								
126.18.c.5	7.5	Data literacy, management, and representation --collect data. The student uses advanced digital strategies to collect and represent data.	A knowledge and skills statement is a broad statement of what students must know and be able to do.								
126.18.c.5.A	7.5.A	demonstrate how data can be represented in a binary number systems	Direct alignment between student expectations	Science.7.2.C use mathematical calculations to assess quantitative relationships in data	Math.7.3.B apply and extend previous understandings of operations to solve problems using addition, subtraction, multiplication, and division of rational numbers						
			Use this space to identify additional connections between technology applications standards and other content standards.								
126.18.c.5.B	7.5.B	evaluate advanced search strategies, including keywords, Boolean operators, and limiters	Direct alignment between student expectations								
			Use this space to identify additional connections between technology applications standards and other content standards. Some illustrative examples are provided.	Science.7.10.A describe the evidence that supports that Earth has changed over time, including fossil evidence, plate tectonics, and superposition SS.7.10.C describe the structure of the population of Texas using demographic concepts such as growth rate and age distribution							
126.18.c.6	7.6	Data literacy, management, and representation --organize, manage, and analyze data. The student uses digital tools to transform data, make inferences, and predictions.	A knowledge and skills statement is a broad statement of what students must know and be able to do.								
126.18.c.6.A	7.6.A	use digital tools in order to transform data to analyze trends and make inferences and predictions	Direct alignment between student expectations	Science.7.2.B analyze data by identifying any significant descriptive statistical features, patterns, sources of error, or limitations	Math.1.D communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate	SS.7.20.C organize and interpret information from outlines, reports, databases, and visuals, including graphs, charts, timelines, and maps	ELAR.7.12.F synthesize information from a variety of sources				

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			Use this space to identify additional connections between technology applications standards and other content standards. An illustrative example is provided	Science.7.1.F construct appropriate tables, graphs, maps, and charts using repeated trials and means to organize data							
126.18.c.7	7.7	Data literacy, management, and representation -- communicate and publish results. The student creates digital products to communicate data to an audience for an intended purpose.	A knowledge and skills statement is a broad statement of what students must know and be able to do.								
126.18.c.7.A	7.7.A	use digital tools to communicate and display data from a product or process to inform or persuade an intended audience	Direct alignment between student expectations	Science.7.3.B communicate explanations and solutions individually and collaboratively in a variety of settings and formats	Math.7.1.D communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate	SS.8.20.E formulate and communicate visually, orally, or in writing a claim supported by evidence and reasoning related to a social studies topic SS.7.22.C create written, oral, and visual presentations of social studies information	ELAR.7.1.D engage in meaningful discourse and provide and accept constructive feedback from others		Theatre.MS.1.3.D use technology in theatrical applications such as live theatre, video, and film		
			Use this space to identify additional connections between technology applications standards and other content standards.								
126.18.c.8	7.8	Digital citizenship--social interactions. The student understands different styles of digital communication and that a student's actions online can have a long-term impact.	A knowledge and skills statement is a broad statement of what students must know and be able to do.								
126.18.c.8.A	7.8.A	classify actions as having a positive or negative effect on a digital footprint	Direct alignment between student expectations					Health.7-8.13.C evaluate strategies and techniques for identity protection in digital and online environments			
			Use this space to identify additional connections between technology applications standards and other content standards. An illustrative example is provided	Health.7-8.13.B discuss and analyze the consequences resulting from inappropriate digital and online communication such as social media posts, sending and receiving photos, sexting, and pornography							
126.18.c.8.B	7.8.B	create and revise formal and informal communications using a feedback process and appropriate digital etiquette	Direct alignment between student expectations	Science.7.3.B communicate explanations and solutions individually and collaboratively in a variety of settings and formats	Math.7.1.D communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate	SS.7.20.E formulate and communicate visually, orally, or in writing a claim supported by evidence and reasoning related to a social studies topic SS.7.22.C create written, oral, and visual presentations of social studies information	ELAR.7.1.D engage in meaningful discourse and provide and accept constructive feedback from others	Health.7-8.13.A develop strategies to resist inappropriate digital and online communication such as social media posts, sending and receiving photos, sexting, and pornography Health.7-8.13.B discuss and analyze the consequences resulting from inappropriate digital and online communication such as social media posts, sending and receiving photos, sexting, and pornography			
			Use this space to identify additional connections between technology applications standards and other content standards. Some illustrative examples are provided.	ELAR.7.10.A plan a first draft by selecting a genre appropriate for a particular topic, purpose, and audience using a range of strategies such as discussion, background reading, an personal interests Art.MS.1.2.C produce artworks, including drawings, paintings, prints, sculptures/modeled forms, ceramics, fiber art, photographic imagery, and digital art and media, using a variety of materials							

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126.18.c.8.C	7.8.C	collaborate on digital platforms such as recording a video conference presentation using appropriate formal and informal digital etiquette	Direct alignment between student expectations	Science.7.3.B communicate explanations and solutions individually and collaboratively in a variety of settings and formats Science.7.3.C engage respectfully in scientific argumentation using applied scientific explanations and empirical evidence	Math.7.1.D communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate	SS.7.22.D apply foundational language skills to engage in civil discourse about social studies topics, including those with multiple perspectives	ELAR.7.1.D engage in meaningful discourse and provide and accept constructive feedback from others	Health.7-8.13.A develop strategies to resist inappropriate digital and online communication such as social media posts, sending and receiving photos, sexting, and pornography Health.7-8.13.B discuss and analyze the consequences resulting from inappropriate digital and online communication such as social media posts, sending and receiving photos, sexting, and pornography			
			Use this space to identify additional connections between technology applications standards and other content standards. An illustrative example is provided	Art.MS.1.2.C produce artworks, including drawings, paintings, prints, sculptures/modeled forms, ceramics, fiber art, photographic imagery, and digital art and media, using a variety of materials							
126.18.c.9	7.9	Digital citizenship –ethics and laws. The student recognizes and practices responsible, legal, and ethical behavior while using digital tools and resources.	A knowledge and skills statement is a broad statement of what students must know and be able to do.								
126.18.c.9.A	7.9.A	adhere to local acceptable use policy (AUP) and practice and model safe, ethical, and positive online behaviors	Direct alignment between student expectations					Health.7-8.13.B discuss and analyze the consequences resulting from inappropriate digital and online communication such as social media posts, sending and receiving photos, sexting, and pornography			
			Use this space to identify additional connections between technology applications standards and other content standards.								
126.18.c.9.B	7.9.B	explain the importance of intellectual property laws, including the benefits of protection for content owners, and the consequences of violating these laws	Direct alignment between student expectations			SS.7.22.B use effective written communication skills, including proper citations and avoiding plagiarism	ELAR.7.12.G differentiate between paraphrasing and plagiarism when using source materials				
			Use this space to identify additional connections between technology applications standards and other content standards.								
126.18.c.9.C	7.9.C	create citations and cite sources for a variety of digital forms of intellectual property	Direct alignment between student expectations			SS.7.22.B use effective written communication skills, including proper citations and avoiding plagiarism	ELAR.7.12.I display academic citations and use source materials ethically				
			Use this space to identify additional connections between technology applications standards and other content standards.								
126.18.c.9.D	7.9.D	evaluate how various types of media, including social media, and technology can be used to exaggerate and misrepresent information	Direct alignment between student expectations	Science.7.4.B make informed decisions by evaluating evidence from multiple appropriate sources to assess the credibility, accuracy, cost-effectiveness, and methods used		SS.7.20.D identify bias and points of view from the historical context surrounding an event that influenced the participants SS.7.20.F evaluate a variety of historical and contemporary sources for validity, credibility, bias, and accuracy	ELAR.7.12.H examine sources for: (i) reliability, credibility, and bias (ii) faulty reasoning such as hyperbole, emotional appeals, and stereotype				

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126.18.c.10	7.10	Digital citizenship—privacy, safety, and security. The student practices safe, legal, and ethical digital behaviors to become a socially responsible digital citizen.	A knowledge and skills statement is a broad statement of what students must know and be able to do.								
126.18.c.10.A	7.10.A	describe and model ways to protect oneself from real-world cybersecurity attacks	Direct alignment between student expectations					Health.7-8.13.C evaluate strategies and techniques for identity protection in digital and online environments			
			Use this space to identify additional connections between technology applications standards and other content standards.								
126.18.c.10.B	7.10.B	analyze the negative impacts of cyberbullying on the victim and the bully	Direct alignment between student expectations					Health.7-8.13.E research the current legal consequences of cyberbullying and inappropriate digital and online communication			
			Use this space to identify additional connections between technology applications standards and other content standards.								
126.18.c.11	7.11	Practical technology concepts—processes. The student evaluates and selects appropriate methods or techniques for an independent project and identifies and solves common hardware and software problems using troubleshooting strategies.	A knowledge and skills statement is a broad statement of what students must know and be able to do.								
126.18.c.11.A	7.11.A	choose a variety of digital tools to create, share, and communicate digital artifacts	Direct alignment between student expectations	Science.7.3.B communicate explanations and solutions individually and collaboratively in a variety of settings and formats	Math.7.1.D communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate	SS.7.20.E formulate and communicate visually, orally, or in writing a claim supported by evidence and reasoning related to a social studies topic SS.7.22.C create written, oral, and visual presentations of social studies information	ELAR.7.12.J use an appropriate mode of delivery, whether written, oral, or multimodal, to present results		Art.MS1.2.C produce artworks, including drawings, paintings, prints, sculptures/modeled forms, ceramics, fiber art, photographic imagery, and digital art and media, using a variety of materials		
126.18.c.11.A	7.11.A	choose a variety of digital tools to create, share, and communicate digital artifacts	Use this space to identify additional connections between technology applications standards and other content standards.								
126.18.c.12	7.12	Practical technology concepts—skills and tools. The student leverages technology systems, concepts, and operations to produce digital artifacts.	A knowledge and skills statement is a broad statement of what students must know and be able to do.								

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126.18.c.12.A	7.12.A	demonstrate proficiency in the appropriate use of technology terminology in projects through team collaboration and communication	Direct alignment between student expectations	Science.7.3.B communicate explanations and solutions individually and collaboratively in a variety of settings and formats	Math.7.1.D communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate	SS.7.20.E formulate and communicate visually, orally, or in writing a claim supported by evidence and reasoning related to a social studies topic			Art.MS1.2.C produce artworks, including drawings, paintings, prints, sculptures/modeled forms, ceramics, fiber art, photographic imagery, and digital art and media, using a variety of materials		
			Use this space to identify additional connections between technology applications standards and other content standards. An illustrative example is provided	ELAR.7.12.J use an appropriate mode of delivery, whether written, oral, or multimodal, to present results							
126.18.c.12.B	7.12.B	demonstrate effective file management strategies such as file naming conventions, local and remote locations, backup, hierarchy, folder structure, file conversion, tags, and emerging digital organizational strategies with assistance	Direct alignment between student expectations								
			Use this space to identify additional connections between technology applications standards and other content standards.								
126.18.c.12.C	7.12.C	select and use appropriate platform and tools, including selecting and using software or hardware for a defined task	Direct alignment between student expectations	Science.7.3.B communicate explanations and solutions individually and collaboratively in a variety of settings and formats	Math.7.1.C select tools, including real objects, manipulatives, paper and pencil, and technology as appropriate, and techniques, including mental math, estimation, and number sense as appropriate, to solve problems		ELAR.7.12.J use an appropriate mode of delivery, whether written, oral, or multimodal, to present results				
			Use this space to identify additional connections between technology applications standards and other content standards.								
126.18.c.12.D	7.12.D	demonstrate improvement in speed and accuracy as measured by words per minute when applying correct keyboarding techniques	Direct alignment between student expectations								
			Use this space to identify additional connections between technology applications standards and other content standards.								
126.18.c.12.E	7.12.E	select and use appropriate shortcuts within applications	Direct alignment between student expectations								
			Use this space to identify additional connections between technology applications standards and other content standards.								

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126.18.c.12.F	7.12.F	research and test potential solutions to solve hardware and software problems	Direct alignment between student expectations								
			Use this space to identify additional connections between technology applications standards and other content standards.								
126.18.c.12.G	7.12.G	use a variety of types of local and remote data storage to store or share data such as cloud architecture or local server	Direct alignment between student expectations								
			Use this space to identify additional connections between technology applications standards and other content standards.								
126.18.c.12.H	7.12.H	select and use productivity tools found in spread sheet, word processing, and publication applications to create digital artifacts such as reports, graphs, and charts with increasing complexity	Direct alignment between student expectations	Science.7.3.B communicate explanations and solutions individually and collaboratively in a variety of settings and formats	Math.7.1.D communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate	SS.7.22.C create written, oral, and visual presentations of social studies information					
			Use this space to identify additional connections between technology applications standards and other content standards. Some illustrative examples are provided.	ELAR.7.10.C revise drafts for clarity, development, organization, style, word choice, and sentence variety Theatre.MS.1.3.D use technology in theatrical applications such as live theatre, video, and film							