

<b>Subject</b>		<b>§126. Technology Applications</b>		
<b>Course Title</b>		<b>§126.43. 3-D Modeling and Animation (One Credit), Beginning with School Year 2012-2013</b>		
<b>TEKS (Knowledge and</b>	<b>Student Expectation</b>	<b>Breakout</b>	<b>Element</b>	<b>Subelement</b>
<p><b>(a) General requirements.</b> General requirements. Students shall be awarded one credit for successful completion of this course. The prerequisite for this course is proficiency in the knowledge and skills relating to Technology Applications, Grades 6-8. The recommended prerequisite is Art, Level I. This course is recommended for students in Grades 9-12. This course satisfies the high school fine arts graduation requirement.</p>				
<p><b>(b) Introduction.</b></p> <p>(1) The technology applications curriculum has six strands based on the National Educational Technology Standards for Students (NETS•S) and performance indicators developed by the International Society for Technology in Education (ISTE): creativity and innovation; communication and collaboration; research and information fluency; critical thinking, problem solving, and decision making; digital citizenship; and technology operations and concepts.</p> <p>(2) Through the study of the six strands in technology applications, students will develop college readiness skills applied to technology, including terminology, concepts, and strategies. Students will learn to make informed decisions about technologies and their applications. Students will learn the efficient acquisition of information using search strategies and the use of technology to access, analyze, and evaluate acquired information. By using technology as a tool that supports the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate results. Students will communicate information in different formats and to diverse audiences using a variety of technologies. Students will analyze and evaluate the results.</p> <p>(3) 3-D Modeling and Animation consists of computer images created in a virtual three-dimensional (3-D) environment. 3-D Modeling and Animation has applications in many careers, including criminal justice, crime scene, and legal applications; construction and architecture; engineering and design; and the movie and game industries. Students in this course will produce various 3-D models of real-world objects.</p> <p>(4) Statements that contain the word "including" reference content that must be mastered, while those containing the phrase "such as" are intended as possible illustrative examples.</p>				
<b>(c) Knowledge and Skills.</b>				
(1) Creativity and innovation. The student demonstrates creative thinking, constructs knowledge, and develops innovative products and processes using technology. The student is expected to:	(A) evaluate, edit, and create scripts for animations	(i) evaluate scripts for animations		

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(1) Creativity and innovation. The student demonstrates creative thinking, constructs knowledge, and develops innovative products and processes using technology. The student is expected to:	(A) evaluate, edit, and create scripts for animations	(ii) edit scripts for animations		
(1) Creativity and innovation. The student demonstrates creative thinking, constructs knowledge, and develops innovative products and processes using technology. The student is expected to:	(A) evaluate, edit, and create scripts for animations	(iii) create scripts for animations		
(1) Creativity and innovation. The student demonstrates creative thinking, constructs knowledge, and develops innovative products and processes using technology. The student is expected to:	(B) identify and apply color theories, including harmony rules, tints, shades, gradients, color mixing, new color creation, and the visual impacts of specific color combinations using a digital format	(i) identify color theories, including harmony rules using a digital format		
(1) Creativity and innovation. The student demonstrates creative thinking, constructs knowledge, and develops innovative products and processes using technology. The student is expected to:	(B) identify and apply color theories, including harmony rules, tints, shades, gradients, color mixing, new color creation, and the visual impacts of specific color combinations using a digital format	(ii) identify color theories, including tints using a digital format		





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(1) Creativity and innovation. The student demonstrates creative thinking, constructs knowledge, and develops innovative products and processes using technology. The student is expected to:	(B) identify and apply color theories, including harmony rules, tints, shades, gradients, color mixing, new color creation, and the visual impacts of specific color combinations using a digital format	(xi) apply color theories, including gradients using a digital format		
(1) Creativity and innovation. The student demonstrates creative thinking, constructs knowledge, and develops innovative products and processes using technology. The student is expected to:	(B) identify and apply color theories, including harmony rules, tints, shades, gradients, color mixing, new color creation, and the visual impacts of specific color combinations using a digital format	(xii) apply color theories, including color mixing using a digital format		
(1) Creativity and innovation. The student demonstrates creative thinking, constructs knowledge, and develops innovative products and processes using technology. The student is expected to:	(B) identify and apply color theories, including harmony rules, tints, shades, gradients, color mixing, new color creation, and the visual impacts of specific color combinations using a digital format	(xiii) apply color theories, including new color creation using a digital format		
(1) Creativity and innovation. The student demonstrates creative thinking, constructs knowledge, and develops innovative products and processes using technology. The student is expected to:	(B) identify and apply color theories, including harmony rules, tints, shades, gradients, color mixing, new color creation, and the visual impacts of specific color combinations using a digital format	(xiv) apply color theories, including the visual impacts of specific color combinations using a digital format		





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<p>(1) Creativity and innovation. The student demonstrates creative thinking, constructs knowledge, and develops innovative products and processes using technology. The student is expected to:</p>	<p>(D) compare, contrast, and integrate the basic sound editing principles, including mixing and manipulation wave forms, audio tracks, and effects</p>	<p>(v) integrate the basic sound editing principles, including mixing effects</p>		
<p>(1) Creativity and innovation. The student demonstrates creative thinking, constructs knowledge, and develops innovative products and processes using technology. The student is expected to:</p>	<p>(D) compare, contrast, and integrate the basic sound editing principles, including mixing and manipulation wave forms, audio tracks, and effects</p>	<p>(vi) compare the basic sound editing principles, including manipulating wave forms</p>		
<p>(1) Creativity and innovation. The student demonstrates creative thinking, constructs knowledge, and develops innovative products and processes using technology. The student is expected to:</p>	<p>(D) compare, contrast, and integrate the basic sound editing principles, including mixing and manipulation wave forms, audio tracks, and effects</p>	<p>(vii) compare the basic sound editing principles, including manipulating audio tracks</p>		
<p>(1) Creativity and innovation. The student demonstrates creative thinking, constructs</p>	<p>(D) compare, contrast, and integrate the basic sound</p>	<p>(viii) compare the basic sound editing principles, including</p>		



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(1) Creativity and innovation. The student demonstrates creative thinking, constructs knowledge, and develops innovative products and processes using technology. The student is expected to:	(D) compare, contrast, and integrate the basic sound editing principles, including mixing and manipulation wave forms, audio tracks, and effects	(ix) contrast the basic sound editing principles, including manipulating wave forms		
(1) Creativity and innovation. The student demonstrates creative thinking, constructs knowledge, and develops innovative products and processes using technology. The student is expected to:	(D) compare, contrast, and integrate the basic sound editing principles, including mixing and manipulation wave forms, audio tracks, and effects	(x) contrast the basic sound editing principles, including manipulating audio tracks		
(1) Creativity and innovation. The student demonstrates creative thinking, constructs knowledge, and develops innovative products and processes using technology. The student is expected to:	(D) compare, contrast, and integrate the basic sound editing principles, including mixing and manipulation wave forms, audio tracks, and effects	(xi) contrast the basic sound editing principles including manipulating effects		
(1) Creativity and innovation. The student demonstrates creative thinking, constructs knowledge, and develops innovative products and processes using technology. The student is expected to:	(D) compare, contrast, and integrate the basic sound editing principles, including mixing and manipulation wave forms, audio tracks, and effects	(xii) integrate the basic sound editing principles, including manipulating wave forms		

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(1) Creativity and innovation. The student demonstrates creative thinking, constructs knowledge, and develops innovative products and processes using technology. The student is expected to:	(D) compare, contrast, and integrate the basic sound editing principles, including mixing and manipulation wave forms, audio tracks, and effects	(xiii) integrate the basic sound editing principles including manipulating audio tracks		
(1) Creativity and innovation. The student demonstrates	(D) compare, contrast, and integrate the basic sound	(xiv) integrate the basic sound editing principles, including	integrate the basic sound	

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<p>(1) Creativity and innovation. The student demonstrates creative thinking, constructs knowledge, and develops innovative products and processes using technology. The student is expected to:</p>	<p>(E) compare and contrast the rules of composition such as the rule of thirds or the golden section/rectangle with respect to harmony and balance</p>	<p>(iii) contrast the rules of composition with respect to harmony</p>		
<p>(1) Creativity and innovation. The student demonstrates creative thinking, constructs knowledge, and develops innovative products and processes using technology. The student is expected to:</p>	<p>(E) compare and contrast the rules of composition such as the rule of thirds or the golden section/rectangle with respect to harmony and balance</p>	<p>(iv) contrast the rules of composition with respect to balance</p>		
<p>(1) Creativity and innovation. The student demonstrates creative thinking, constructs knowledge, and develops innovative products and processes using technology. The student is expected to:</p>	<p>(F) evaluate the fundamental concepts of 3-D modeling and design such as composition, perspective, angles, lighting, repetition, proximity, white space, balance, and contrast</p>	<p>(i) evaluate the fundamental concepts of 3-D modeling</p>		
<p>(1) Creativity and innovation. The student demonstrates creative thinking, constructs knowledge, and develops innovative products and processes using technology. The student is expected to:</p>	<p>(F) evaluate the fundamental concepts of 3-D modeling and design such as composition, perspective, angles, lighting, repetition, proximity, white space, balance, and contrast</p>	<p>(ii) evaluate the fundamental concepts of 3-D design</p>		

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(1) Creativity and innovation. The student demonstrates creative thinking, constructs knowledge, and develops innovative products and processes using technology. The student is expected to:	(G) analyze 3-D model objects to interpret the point of interest, the prominence of the subject, and visual parallels between the structures of natural and human-made environments	(i) analyze 3-D model objects to interpret the point of interest		
(1) Creativity and innovation. The student demonstrates creative thinking, constructs knowledge, and develops innovative products and processes using technology. The student is expected to:	(G) analyze 3-D model objects to interpret the point of interest, the prominence of the subject, and visual parallels between the structures of natural and human-made environments	(ii) analyze 3-D model objects to interpret the prominence of the subject		
(1) Creativity and innovation. The student demonstrates creative thinking, constructs knowledge, and develops innovative products and processes using technology. The student is expected to:	(G) analyze 3-D model objects to interpret the point of interest, the prominence of the subject, and visual parallels between the structures of natural and human-made environments	(iii) analyze 3-D model objects to interpret visual parallels between the structures of natural and human-made environments		
(1) Creativity and innovation. The student demonstrates creative thinking, constructs knowledge, and develops innovative products and processes using technology. The student is expected to:	(H) distinguish among typefaces while recognizing and resolving conflicts that occur through the use of typography as a design element	(i) distinguish among typefaces while recognizing conflicts that occur through the use of typography as a design element		





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<p>(1) Creativity and innovation. The student demonstrates creative thinking, constructs knowledge, and develops innovative products and processes using technology. The student is expected to:</p>	<p>(K) edit files using appropriate digital editing tools and established design principles such as consistency, repetition, alignment, proximity, white space, image file size, color use, font size, type, and style</p>	<p>(i) edit files using appropriate digital editing tools</p>		
<p>(1) Creativity and innovation. The student demonstrates creative thinking, constructs knowledge, and develops innovative products and processes using technology. The student is expected to:</p>	<p>(K) edit files using appropriate digital editing tools and established design principles such as consistency, repetition, alignment, proximity, white space, image file size, color use, font size, type, and style</p>	<p>(ii) edit files using established design principles</p>		
<p>(1) Creativity and innovation. The student demonstrates creative thinking, constructs knowledge, and develops innovative products and processes using technology. The student is expected to:</p>	<p>(L) identify pictorial qualities in a design such as shape and form, space and depth, or pattern and texture to create visual unity and desired effects in designs</p>	<p>(i) identify pictorial qualities in a design</p>		





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(2) Communication and collaboration. The student uses digital media and environments to communicate and work collaboratively, including at a distance, to support individual learning and contribute to the learning experience of others. The student is expected to:	(B) demonstrate the use of technology to participate in self-directed and collaborative activities within the global community	(i) demonstrate the use of technology to participate in self-directed activities within the global community		
(2) Communication and collaboration. The student uses digital media and environments to communicate and work collaboratively, including at a distance, to support individual learning and contribute to the learning experience of others. The student is expected to:	(B) demonstrate the use of technology to participate in self-directed and collaborative activities within the global community	(ii) demonstrate the use of technology to participate in collaborative activities within the global community		
(2) Communication and collaboration. The student uses digital media and environments to communicate and work collaboratively, including at a distance, to support individual learning and contribute to the learning experience of others. The student is expected to:	(C) participate in electronic communities			







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(2) Communication and collaboration. The student uses digital media and environments to communicate and work collaboratively, including at a distance, to support individual learning and contribute to the learning experience of others. The student is expected to:	(G) publish and save information in a variety of ways, including print or digital formats	(i) publish information in a variety of ways, including print or digital formats		
(2) Communication and collaboration. The student uses digital media and environments to communicate and work collaboratively, including at a distance, to support individual learning and contribute to the learning experience of others. The student is expected to:	(G) publish and save information in a variety of ways, including print or digital formats	(ii) save information in a variety of ways, including print or digital formats		
(2) Communication and collaboration. The student uses digital media and environments to communicate and work collaboratively, including at a distance, to support individual learning and contribute to the learning experience of others. The student is expected to:	(H) analyze and evaluate projects for design, content delivery, purpose, and audience;	(i) analyze projects for design		



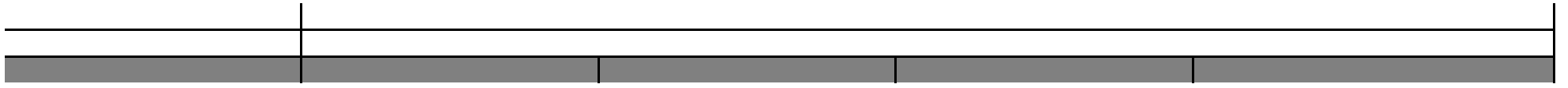


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(2) Communication and collaboration. The student uses digital media and environments to communicate and work collaboratively, including at a distance, to support individual learning and contribute to the learning experience of others. The student is expected to:	(I) critique original 3-D digital artwork, portfolios, and products with peers	(iii) critique original 3-D products with peers		
(3) Research and information fluency. The student applies digital tools to gather, evaluate, and use information. The student is expected to:	(A) distinguish among and correctly apply process color (RGB and CYMK), spot color, and black or white	(i) distinguish among process color (RGB and CYMK), spot color, and black or white		
(3) Research and information fluency. The student applies digital tools to gather, evaluate, and use information. The student is expected to:	(A) distinguish among and correctly apply process color (RGB and CYMK), spot color, and black or white	(ii) correctly apply process color (RGB and CYMK)		
(3) Research and information fluency. The student applies digital tools to gather, evaluate, and use information. The student is expected to:	(A) distinguish among and correctly apply process color (RGB and CYMK), spot color, and black or white	(iii) correctly apply spot color		

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(3) Research and information fluency. The student applies digital tools to gather, evaluate, and use information. The student is expected to:	(A) distinguish among and correctly apply process color (RGB and CYMK), spot color, and black or white	(iii) correctly apply black or white		
(3) Research and information fluency. The student applies digital tools to gather, evaluate, and use information. The student is expected to:	(B) research the history of 3-D modeling and 3-D animation	(i) research the history of 3-D modeling		
(3) Research and information fluency. The student applies digital tools to gather, evaluate, and use information. The student is expected to:	(B) research the history of 3-D modeling and 3-D animation	(ii) research the history of 3-D animation		
(3) Research and information fluency. The student applies digital tools to gather, evaluate, and use information. The student is expected to:	(C) research career choices in 3-D modeling and 3-D animation	(i) research career choices in 3-D modeling		
(3) Research and information fluency. The student applies digital tools to gather, evaluate, and use information. The student is expected to:	(C) research career choices in 3-D modeling and 3-D animation	(ii) research career choices in 3-D animation		



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(3) Research and information fluency. The student applies digital tools to gather, evaluate, and use information. The student is expected to:	(F) import sounds from a variety of sources			
(3) Research and information fluency. The student applies digital tools to gather, evaluate, and use information. The student is expected to:	(G) create planning designs such as rough sketches, storyboards, and brainstorming materials	(i) create planning designs		
(4) Critical thinking, problem solving, and decision making. The student uses critical-thinking skills to plan and conduct research, manage projects, solve problems, and make informed decisions using appropriate digital tools and resources. The student is expected to:	(A) distinguish between and use the components of 3-D animation software programs such as cast, score, environment, the X-Y-Z coordinate system, and the animation manipulation interface	(i) distinguish between the components of 3-D animation software programs		

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<p>(4) Critical thinking, problem solving, and decision making. The student uses critical-thinking skills to plan and conduct research, manage projects, solve problems, and make informed decisions using appropriate digital tools and resources. The student is expected to:</p>	<p>(E) use the basic concepts of color and design theory such as working with 3-D models and environments, characters, objects, and other cast members as needed for the animation</p>	<p>(i) use the basic concepts of color theory as needed for the animation</p>		
<p>(4) Critical thinking, problem solving, and decision making. The student uses critical-thinking skills to plan and conduct research, manage projects, solve problems, and make informed decisions using appropriate digital tools and resources. The student is expected to:</p>	<p>(E) use the basic concepts of color and design theory such as working with 3-D models and environments, characters, objects, and other cast members as needed for the animation</p>	<p>(ii) use the basic concepts of design theory as needed for the animation</p>		
<p>(4) Critical thinking, problem solving, and decision making. The student uses critical-thinking skills to plan and conduct research, manage projects, solve problems, and make informed decisions using appropriate digital tools and resources. The student is expected to:</p>	<p>(F) use the appropriate rendering techniques to create an animation</p>			

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<p>(4) Critical thinking, problem solving, and decision making. The student uses critical-thinking skills to plan and conduct research, manage projects, solve problems, and make informed decisions using appropriate digital tools and resources. The student is expected to:</p>	<p>(G) use a variety of lighting techniques such as shadow, shading, point, spot, directional, and ambient to create effects</p>	<p>(i) use a variety of lighting techniques to create effects</p>		
<p>(4) Critical thinking, problem solving, and decision making. The student uses critical-thinking skills to plan and conduct research, manage projects, solve problems, and make informed decisions using appropriate digital tools and resources. The student is expected to:</p>	<p>(H) define the design attributes and requirements of a 3-D animation project</p>	<p>(i) define the design attributes of a 3-D animation project</p>		
<p>(4) Critical thinking, problem solving, and decision making. The student uses critical-thinking skills to plan and conduct research, manage projects, solve problems, and make informed decisions using appropriate digital tools and resources. The student is expected to:</p>	<p>(H) define the design attributes and requirements of a 3-D animation project</p>	<p>(ii) define the design requirements of a 3-D animation project</p>		



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(5) Digital citizenship. The student understands human, cultural, and societal issues related to technology and practices legal and ethical behavior. The student is expected to:	(A) discuss copyright laws/issues and use of digital information such as attributing ideas and citing sources using established methods	(i) discuss copyright laws/issues		
(5) Digital citizenship. The student understands human, cultural, and societal issues related to technology and practices legal and ethical behavior. The student is expected to:	(A) discuss copyright laws/issues and use of digital information such as attributing ideas and citing sources using established methods	(ii) discuss use of digital information		
(5) Digital citizenship. The student understands human, cultural, and societal issues related to technology and practices legal and ethical behavior. The student is expected to:	(B) define plagiarism and model respect of intellectual property	(i) define plagiarism		
(5) Digital citizenship. The student understands human, cultural, and societal issues related to technology and practices legal and ethical behavior. The student is expected to:	(B) define plagiarism and model respect of intellectual property	(ii) model respect of intellectual property		

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(5) Digital citizenship. The student understands human, cultural, and societal issues related to technology and practices legal and ethical behavior. The student is expected to:	(C) demonstrate proper digital etiquette and knowledge of acceptable use policies when using technology	(i) demonstrate proper digital etiquette when using technology		
(5) Digital citizenship. The student understands human, cultural, and societal issues related to technology and practices legal and ethical behavior. The student is expected to:	(C) demonstrate proper digital etiquette and knowledge of acceptable use policies when using technology	(ii) demonstrate knowledge of acceptable use policies when using technology		
(5) Digital citizenship. The student understands human, cultural, and societal issues related to technology and practices legal and ethical behavior. The student is expected to:	(D) evaluate the validity and reliability of sources	(i) evaluate the validity of sources		
(5) Digital citizenship. The student understands human, cultural, and societal issues related to technology and practices legal and ethical behavior. The student is expected to:	(D) evaluate the validity and reliability of sources	(ii) evaluate the reliability of sources		

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(6) Technology operations and concepts. The student demonstrates a sound understanding of technology concepts, systems, and operations. The student is expected to:	(A) demonstrate knowledge and appropriate use of operating systems, software applications, and communication and networking components	(i) demonstrate knowledge of operating systems		
(6) Technology operations and concepts. The student demonstrates a sound understanding of technology concepts, systems, and operations. The student is expected to:	(A) demonstrate knowledge and appropriate use of operating systems, software applications, and communication and networking components	(ii) demonstrate knowledge of software applications		
(6) Technology operations and concepts. The student demonstrates a sound understanding of technology concepts, systems, and operations. The student is expected to:	(A) demonstrate knowledge and appropriate use of operating systems, software applications, and communication and networking components	(iii) demonstrate knowledge of communication components		
(6) Technology operations and concepts. The student demonstrates a sound understanding of technology concepts, systems, and operations. The student is expected to:	(A) demonstrate knowledge and appropriate use of operating systems, software applications, and communication and networking components	(iv) demonstrate knowledge of networking components		



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(6) Technology operations and concepts. The student demonstrates a sound understanding of technology concepts, systems, and operations. The student is expected to:	(B) make decisions regarding the selection and use of software and Internet resources	(i) make decisions regarding the selection of software		
(6) Technology operations and concepts. The student demonstrates a sound understanding of technology concepts, systems, and operations. The student is expected to:	(B) make decisions regarding the selection and use of software and Internet resources	(ii) make decisions regarding the use of software		
(6) Technology operations and concepts. The student demonstrates a sound understanding of technology concepts, systems, and operations. The student is expected to:	(B) make decisions regarding the selection and use of software and Internet resources	(iii) make decisions regarding the selection of Internet resources		
(6) Technology operations and concepts. The student demonstrates a sound understanding of technology concepts, systems, and operations. The student is expected to:	(B) make decisions regarding the selection and use of software and Internet resources	(iv) make decisions regarding the use of Internet resources		

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(6) Technology operations and concepts. The student demonstrates a sound understanding of technology concepts, systems, and operations. The student is expected to:	(C) make necessary adjustments regarding compatibility issues with digital file formats, importing and exporting data, and cross-platform compatibility	(i) make necessary adjustments regarding compatibility issues with digital file formats		
(6) Technology operations and concepts. The student demonstrates a sound understanding of technology concepts, systems, and operations. The student is expected to:	(C) make necessary adjustments regarding compatibility issues with digital file formats, importing and exporting data, and cross-platform compatibility	(ii) make necessary adjustments regarding compatibility issues with importing data		
(6) Technology operations and concepts. The student demonstrates a sound understanding of technology concepts, systems, and operations. The student is expected to:	(C) make necessary adjustments regarding compatibility issues with digital file formats, importing and exporting data, and cross-platform compatibility	(iii) make necessary adjustments regarding compatibility issues with exporting data		
(6) Technology operations and concepts. The student demonstrates a sound understanding of technology concepts, systems, and operations. The student is expected to:	(C) make necessary adjustments regarding compatibility issues with digital file formats, importing and exporting data, and cross-platform compatibility	(iv) make necessary adjustments regarding compatibility issues with cross-platform compatibility		

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(6) Technology operations and concepts. The student demonstrates a sound understanding of technology concepts, systems, and operations. The student is expected to:	(D) read, use, and develop technical documentation	(i) read technical documentation		
(6) Technology operations and concepts. The student demonstrates a sound understanding of technology concepts, systems, and operations. The student is expected to:	(D) read, use, and develop technical documentation	(ii) use technical documentation		
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