

21st Century Skills: 3D Modeling

		Module 1	Module 2	Module 3	Module 4	Module 5	Module 6	Module 7	Module 8	Module 9	Module 10	Module 11	Module 12	Module 13	Module 14	Module 15	
1 Creativity and Innovation	1.A Think Creatively	1.A.1 Use a wide range of idea creation techniques (such as brainstorming)		X	X	X	X	X	X	X	X	X	X	X			
		1.A.2 Create new and worthwhile ideas (both incremental and radical concepts)	X	X	X	X	X	X	X	X	X	X	X	X	X		
		1.A.3 Elaborate, refine, analyze, and evaluate their own ideas in order to improve and maximize creative efforts	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	1.B Work Creatively with Others	1.B.1 Develop, implement, and communicate new ideas to others effectively.			X	X			X	X		X	X	X	X	X	X
		1.B.2 Be open and responsive to new and diverse perspectives			X	X		X	X	X	X	X	X	X	X	X	X
		1.B.3 Incorporate group input and feedback into the work			X	X		X	X	X		X	X	X	X	X	X
		1.B.4 Demonstrate originality and inventiveness in work and understand the real world limits to adopting new ideas	X	X	X	X	X	X	X	X	X	X	X	X	X		
		1.B.5 Understand that creativity and innovation are long-term, cyclical processes of small success and frequent challenges	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	1.C Implement Innovations	1.C.1 Act on creative ideas to make a tangible and useful contribution to the field in which the innovation will occur			X	X		X	X	X		X	X	X	X		

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2 Critical Thinking and Problem Solving	2.A Reason Effectively	2.A.1 Use various types of reasoning (inductive, deductive, etc.) as appropriate to the situation.	x	x	x	x	x	x	x	x	x	x	x	x	X	X	
	2.B Use Systems Thinking	2.B.1 Analyze how parts of a whole interact with each other to produce overall outcomes in complex systems	x	x	x	x	x	x	x	x	x	x	x	x	X	X	
	2.C Make Judgments and Decisions	2.C.1 Effectively analyze and evaluate evidence, arguments, claims, and beliefs			x			x		x				x	x	X	X
		2.C.2 Analyze and evaluate major alternative points of view			x				x					x	x	X	X
		2.C.3 Synthesize and make connections between information and arguments			x				x					x	x	X	X
		2.C.4 Interpret information and draw conclusions based on the best analysis			x				x					x	x	X	X
		2.C.5 Reflect critically on learning experiences and processes	x		x				x	x		x	x	x	x	X	X
	2.D	2.D.1 Solve different kinds of non-familiar problems in both conventional and innovative ways	x	x	x		x	x	x	x	x	x	x	x	x	X	X
		2.D.2 Identify and ask significant questions that clarify various points of view and lead to better solutions	x	x	x	x			x	x	x	x	x	x	x	X	X

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3	Communication and Collaboration	3.A.1 Articulate thoughts and ideas effectively using oral, written, and nonverbal communication skills in a variety of forms and contexts	x				x	x	x	x			x	x	x	x	
		3.A.2 Listen effectively to decipher meaning, including knowledge, values, attitudes, and intentions			x					x				x	x	x	x
		3.A.3 Use communication for a range of purposes (e.g. to inform, instruct, motivate, and persuade)			x					x	x			x	x	x	x
		3.A.4 Utilize multiple media and technologies, understanding their impact	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
		3.A.5 Communicate effectively in diverse environments (including multilingual)															x
	3.B Collaborate with Others	3.B.1 Demonstrate ability to work effectively and respectfully with diverse teams			x							x	x	x	x	x	x
	3.B.2 Exercise flexibility and willingness to be helpful in making necessary compromises to accomplish a common goal			x	x	x	x	x	x		x	x	x	x	x	x	x
	3.B.3 Assume shared responsibility for collaborative work, and value the individual contributions made by each team member				x			x	x					x	x	x	x
4	4.A Access and Evaluate Information	4.A.1 Access information efficiently (time) and effectively (sources)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
		4.A.2 Evaluate information critically and competently		x	x		x	x	x	x	x	x	x	x	x	x	x
	4.B Use and Manage Information	4.B.1 Use information accurately and creatively for the issue or problem at hand	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
		4.B.2 Manage the flow of information from a wide variety of sources			x			x	x			x	x	x	x	x	x
		4.B.3 Apply a fundamental understanding of the ethical/legal issue surrounding the access and use of information								x				x	x	x	x

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5 Media Literacy	5.A Analyze Media	5.A.1 Understand both how and why media messages are constructed, and for what purposes						x	x				x	x	X	X	
		5.A.2 Examine how individuals interpret messages differently, how values and points of view are included or excluded, and how media can influence beliefs and behaviors			x				x							X	X
		5.A.3 Apply a fundamental understanding of the ethical/legal issues surrounding the access and use of media							x							X	X
	5.B Create Media Products	5.B.1 Understand and utilize the most appropriate media creation tools, characteristics, and conventions	x	x		x	x	x	x	x	x	x	x	x	x	X	X
		5.B.2 Understand and effectively utilize the most appropriate expressions and interpretations in diverse, multi-cultural environments														X	X
6 ITC Literacy (Information, Communications, and Technology)	6.A Apply Technology Effectively	6.A.1 Use technology as a tool to research, organize, evaluate, and communicate information	x	x	x		x	x	x	x	x	x	x	x	X	X	
		6.A.2 Use digital technologies (computers, PDAs, media players, GPS, etc.), communication/networking tools, and social networks appropriately to access, manage, integrate, evaluate, and create information to successfully function in a knowledge economy	x	x	x	x	x	x	x	x	x	x	x	x	x	X	X
		6.A.3 Apply a fundamental understanding of the ethical/legal issues surrounding the access and use of information technologies			x			x						x	x	X	X
7 Flexibility and Adaptability	7.A Adapt to Change	7.A.1 Adapt to varied roles, jobs responsibilities, schedules, and contexts		x	x	x	x	x	x	x	x	x	x	x	X	X	
		7.A.2 Work effectively in a climate of ambiguity and changing priorities		x	x	x	x	x	x	x	x	x	x	x	x	X	X
	7.B Be Flexible	7.B.1 Incorporate feedback effectively	x	x	x	x	x	x	x	x	x	x	x	x	x	X	X
		7.B.2 Deal positively with praise, setbacks, and criticism	x	x	x	x	x	x	x	x	x	x	x	x	x	X	X
		7.B.3 Understand, negotiate, and balance diverse views and beliefs to reach workable solutions, particularly in multi-cultural environments				x							x	x	X	X	

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8 Initiative and Self-Direction	8.A Manage Goals and Time	8.A.1 Set goals with tangible and intangible success criteria	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
		8.A.2 Balance tactical (short-term) and strategic (long-term) goals		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		8.A.3 Utilize time and manage workload efficiently	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	8.B Work Independently	8.B.1 Monitor, define, prioritize, and complete tasks without direct oversight	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		8.C Be Self-directed Learners	8.C.1 Go beyond basic mastery of skills and/or curriculum to explore and expand one's own learning and opportunities to gain expertise	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	8.C.2 Demonstrate initiative to advance skill levels towards a professional level			X	X	X		X	X	X	X	X	X	X	X	X	X	X
	8.C.3 Demonstrate commitment to learning as a lifelong process																X	X
	8.C.4 Reflect critically on past experiences in order to inform future progress		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
9 Social and Cross-Cultural Skills	9.A Interact Effectively with Others	9.A.1 Know when it is appropriate to listen and when to speak		X	X	X	X	X	X	X				X	X	X	X	
		9.A.2 Conduct themselves in a respectable, professional manner							X	X		X	X	X	X	X	X	X
	9.B Work Effectively in Diverse Teams	9.B.1 Respect cultural differences and work effectively with people from a range of social and cultural backgrounds							X					X	X	X	X	X
		9.B.2 Respond open-mindedly to different ideas and values			X	X	X		X		X	X	X	X	X	X	X	X
		9.B.3 Leverage social and cultural differences to create new ideas and increase both innovation and quality of work						X						X	X	X	X	X

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10 Productivity and Accountability	10.A Manage Projects	10.A.1 Set and meet goals, even in the face of obstacles and competing pressures	x	x	x	x	x	x	x	x	x	x	x	x	X	X		
		10.A.2 Prioritize, plan, and manage work to achieve the intended result	x	x	x	x	x	x	x	x	x	x	x	x	x	X	X	
	10.B Produce Results	10.B.1 Demonstrate additional attributes associated with producing high quality products including the <i>ability to work positively and ethically</i>	x	x	x	x	x	x	x	x	x	x	x	x	x	X	X	
		10.B.2 Demonstrate additional attributes associated with producing high quality products including the <i>ability to manage time and projects effectively</i>	x	x	x	x	x	x	x	x	x	x	x	x	x	X	X	
		10.B.3 Demonstrate additional attributes associated with producing high quality products including the <i>ability to multi-task</i>		x	x	x	x	x	x	x	x	x	x	x	x	X	X	
		10.B.4 Demonstrate additional attributes associated with producing high quality products including the <i>ability to participate actively, as well as be reliable and punctual</i>		x	x	x	x	x	x	x	x	x	x	x	x	X	X	
		10.B.5 Demonstrate additional attributes associated with producing high quality products including the <i>ability to present oneself professional and with proper etiquette</i>								x			x	x	x	x	X	X
		10.B.6 Demonstrate additional attributes associated with producing high quality products including the <i>ability to collaborate and cooperate effectively with teams</i>			x				x	x					x	x	X	X
		10.B.7 Demonstrate additional attributes associated with producing high quality products including the <i>ability to respect and appreciate team diversity</i>			x				x	x					x	x	X	X
		10.B.8 Demonstrate additional attributes associated with producing high quality products including the <i>ability to be accountable for results</i>	x	x	x		x		x	x	x	x	x	x	x	x	X	X
11 Leadership and Responsibility	11.A Guide and Lead Others	11.A.1 Use interpersonal and problem-solving skills to influence and guide others toward a goal			x			x	x					x	x	X	X	
		11.A.2 Inspire others to reach their very best via example and selflessness			x				x	x					x	x	X	X
		11.A.3 Demonstrate integrity and ethical behavior in using influence and power													x	x	X	X
	11.B Be Responsible to Others	11.B.1 Act responsibly with the interest of the larger community in mind													x	x	X	X