



## 21st Century Skills: Unity™ 3D Programming

		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	Module 16	
1 Creativity and Innovation	1.A Think Creatively	1.A.1 Use a wide range of idea creation techniques (such as brainstorming)																
		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	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.																
		1.B.2 Be open and responsive to new and diverse perspectives																
		1.B.3 Incorporate group input and feedback into the work		x	x	x	x	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																
		1.B.5 Understand that creativity and innovation are long-term, cyclical processes of small success and frequent challenges																
	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																
	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	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	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	x	x	x	x	x	x	x	x	x
		2.C.2 Analyze and evaluate major alternative points of view	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
		2.C.3 Synthesize and make connections between information and arguments	x	x	x	x	x	x	x	x	x	x	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	x	x	x	x	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	x	x	x	x	x
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	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	x	x
3 Communication and Collaboration		3.A Communicate Clearly	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	x	x	x
	3.A.2 Listen effectively to decipher meaning, including knowledge, values, attitudes, and intentions																	
	3.A.3 Use communication for a range of purposes (e.g. to inform, instruct, motivate, and persuade)																	
	3.A.4 Utilize multiple media and technologies, understanding their impact																	
	3.A.5 Communicate effectively in diverse environments (including multi-lingual)																	
	3.B Collaborate with Others	3.B.1 Demonstrate ability to work effectively and respectfully with diverse teams																
		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	x	x
		3.B.3 Assume shared responsibility for collaborative work, and value the individual contributions made by each team member																

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4 Information Literacy	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	x	x	
		4.A.2 Evaluate information critically and competently	x	x	x	x	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	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	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																	
	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	x	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	x	x	x	x	x	x	x	x	x	x
5.A.3 Apply a fundamental understanding of the ethical/legal issues surrounding the access and use of media																			
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	x	x
		5.B.2 Understand and effectively utilize the most appropriate expressions and interpretations in diverse, multi-cultural environments																	
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	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	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	x	x	x	x	x	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	
		7.A.2 Work effectively in a climate of ambiguity and changing priorities									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	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	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	x	x	x	x
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	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	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	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	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
		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	x
		8.C.3 Demonstrate commitment to learning as a lifelong process																	
		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

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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	x	x	x		
		9.A.2 Conduct themselves in a respectable, professional manner																		
	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																		
		9.B.2 Respond open-mindedly to different ideas and values			x	x	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																		
	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	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	x	x	
10.B Produce Results		10.B.1 Demonstrate additional attributes associated with producing high quality products including the ability to work positively and ethically		x	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 ability to manage time and projects effectively		x	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 ability to multi-task				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 ability to participate actively, as well as be reliable and punctual			x	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 ability to present oneself professional and with proper etiquette								x										x
		10.B.6 Demonstrate additional attributes associated with producing high quality products including the ability to collaborate and cooperate effectively with teams								x										x
		10.B.7 Demonstrate additional attributes associated with producing high quality products including the ability to respect and appreciate team diversity								x										x
		10.B.8 Demonstrate additional attributes associated with producing high quality products including the ability to be accountable for results								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	
		11.A.2 Inspire others to reach their very best via example and selflessness							x										x	
		11.A.3 Demonstrate integrity and ethical behavior in using influence and power								x									x	
	11.B Be Responsible to Others	11.B.1 Act responsibly with the interest of the larger community in mind							x										x	