

21st Century Skills: GameMaker Programming I & II

			Module 1	Modules	Modules	Modules
			IVIOUUIE I	2 4	5 6	7 21
	1.A Think Creatively	1.A.1 Use a wide range of idea creation techniques (such as brainstorming)	х	х		х
		1.A.2 Create new and worthwhile ideas (both incremental and radical concepts)	х	х	х	x
_		1.A.3 Elaborate, refine, analyze, and evaluate their own ideas in order to improve and maximize creative efforts	x	x	х	x
ovation		1.B.1 Develop, implement, and communicate new ideas to others effectively.		x		x
and Inn		1.B.2 Be open and responsive to new and diverse perspectives		×	х	х
1 Creativity and Innovation		1.B.3 Incorporate group input and feedback into the work	x	x	х	x
1 Cr		1.B.4 Demonstrate originality and inventiveness in work and understand the real world limits to adopting new ideas		x		х
	1.B Work Creatively with Others	1.B.5 Understand that creativity and innovation are longterm, cyclical processes of small success and frequent challenges	x	x	х	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	х	х	х	х
	2.A Reason Effectively	2.A.1 Use various types of reasoning (inductive, deductive, etc.) as appropriate to the situation.	х	х	х	х
	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	х	х	х	х
ving		2.C.1 Effectively analyze and evaluate evidence, arguments, claims, and beliefs	х	х	х	х
lem Sol		2.C.2 Analyze and evaluate major alternative points of view	х	х	х	х
nd Prob		2.C.3 Synthesize and make connections between information and arguments	х	х	х	х
2 Critical Thinking and Problem Solving		2.C.4 Interpret information and draw conclusions based on the best analysis	х	х	х	х
itical Th		2.C.5 Reflect critically on learning experiences and processes	х	×	х	х
2 Cri		2.D.1 Solve different kinds of nonfamiliar problems in both conventional and innovative ways		×	х	x
	2.C Make Judgments and Decisions	2.D.2 Identify and ask significant questions that clarify various points of view and lead to better solutions	х	х	х	х
Ę		3.A.1 Articulate thoughts and ideas effectively using oral, written, and nonverbal communication skills in a variety of forms and contexts	х	х		x
aboration		3.A.2 Listen effectively to decipher meaning, including knowledge, values, attitudes, and intentions			х	
	3.A Communicate Clearly	3.A.3 Use communication for a range of purposes (e.g. to inform, instruct, motivate, and persuade	х	×	х	x
<u> </u>		3.A.4 Utilize multiple media and technologies, understanding their impact	x	x	x	x
3 Communication and Coll		3.A.5 Communicate effectively in diverse environments (including multi lingual)	x	x	x	x
unicatic	3.B	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	x	×	x	×
3 Comm		3.B.2 Exercise nexionity and winingness to be neighful in making necessary compromises to accomplish a common goal 3.B.3 Assume shared responsibility for collaborative work, and value the individual contributions	x	x	x	x
	Collaborate with Others	made by each team member			^	^



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		4. A Access and	4.A.1 Access information efficiently (time) and effectively (sources)	х	х	x	х
4 Information Literacy	teracy		4.A.2 Evaluate information critically and competently	х	х	х	х
	ation Li	4.B Use and Manage	4.B.1 Use information accurately and creatively for the issue or problem at hand	х	х	х	х
	Inform		4.B.2 Manage the flow of information from a wide variety of sources				х
5 Media literacy	4		4.B.3 Apply a fundamental understanding of the ethical/legal issue surrounding the access and use of information				х
			S.A.1 Understand both how and why media messages are constructed, and for what purposes				
		5.A Analyze Media	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	
	iteracy		5.A.3 Apply a fundamental understanding of the ethical/legal issues surrounding the access and use of media				
	Media L	5.B Create Media Products	5.B.1 Understand and utilize the most appropriate media creation tools, characteristics, and conventions	х	х	x	х
	ī		5.B.2 Understand and effectively utilize the most appropriate expressions and interpretations in diverse, multicultural environments				
	6 ITC Literacy (Information, vications, and Technology)		6.A.1 Use technology as a tool to research, organize, evaluate, and communicate information	х	х	x	х
	Commur		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
		6.A Apply Technology Effectively	6.A.3 Apply a fundamental understanding of the ethical/legal issues surrounding the access and use of information technologies				х
		7.A Adapt to Change 7.B Be Flexible	7.A.1 Adapt to varied roles, jobs responsibilities, schedules, and contexts	х	х	х	х
	daptablili		7.A.2 Work effectively in a climate of ambiguity and changing priorities				х
	ty and Ao		7.B.1 Incorporate feedback effectively	x	х	х	х
	lexibilit		7.B.2 Deal positively with praise, setbacks, and criticism	х	х	х	х
	7.F		7.8.3 Understand, negotiate, and balance diverse views and beliefs to reach workable solutions, particularly in multicultural environments				х
		8.A Manage Goals and Time	8.A.1 Set goals with tangible and intangible success criteria	х	х	х	х
			8.A.2 Balance tactical (shortterm) and strategic (longterm) goals			x	
	SelfDirection		8.A.3 Utilize time and manage workload efficiently	х	х	х	х
		8.B Work Independently	8.B.1 Monitor, define, prioritize, and complete tasks without direct oversight	х	х	×	х
	ive and		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			х	х
	S Initiat		8.C.2 Demonstrate initiative to advance skill levels towards a professional level		х	х	х
			8.C.3 Demonstrate commitment to learning as a lifelong process				х
		8.C Be Self directed Learners	8.C.4 Reflect critically on past experiences in order to inform future progress		х	х	х



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9.A Interact	9.A.1 Know when it is appropriate to listen and when to speak	x	х	x	x
Effectively with Others	9.A.2 Conduct themselves in a respectable, professional manner				x
	9.B.1 Respect cultural differences and work effectively with people from a range of social and cultural backgrounds				х
	9.B.2 Respond openmindedly to different ideas and values	х	х	х	х
9.B Work Effectively in Diverse Teams	9.B.3 Leverage social and cultural differences to create new ideas and increase both innovation and quality of work			х	
	10.A.1 Set and meet goals, even in the face of obstacles and competing pressures	х	х	х	х
10.A Manage Projects	10.A.2 Prioritize, plan, and manage work to achieve the intended result	х	х	х	х
	10.B.1 Demonstrate additional attributes associated with producing high quality products including the ability to work positively and ethically	х	х	х	х
	10.B.2 Demonstrate additional attributes associated with producing high quality products including the ability to manage time and projects effectively	х	х	х	х
	10.B.3 Demonstrate additional attributes associated with producing high quality products including the <i>ability to multitask</i>	х	х	х	х
	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	х	х	х	х
	10.B.5 Demonstrate additional attributes associated with producing high quality products including the ability to present oneself professional and with proper etiquette				х
10.B Produce Results	10.8.6 Demonstrate additional attributes associated with producing high quality products including the ability to collaborate and cooperate effectively with teams		х		х
	10.B.7 Demonstrate additional attributes associated with producing high quality products including the ability to respect and appreciate team diversity				х
	10.8.8 Demonstrate additional attributes associated with producing high quality products including the ability to be accountable for results		х		х
	11.A.1 Use interpersonal and problemsolving skills to influence and guide others toward a goal		х	х	х
	11.A.2 Inspire others to reach their very best via example and selflessness				х
11.A Guide and Lead Others	11.A.3 Demonstrate integrity and ethical behavior in using influence and power				х
11.B Be Responsible to Others	11.B.1 Act responsibly with the interest of the larger communiy in mind				х
	9.8 Work Effectively in Diverse Teams 10.A Manage Projects 11.A Guide and Lead Others 11.B Be Responsible	9.A Interact Effectively with Others 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 9.B.3 Leverage social and cultural differences to create new ideas and increase both innovation and quality of work 10.A.1 Set and meet goals, even in the face of obstacles and competing pressures 10.A.2 Prioritize, plan, and manage work to achieve the intended result 10.B.1 Demonstrate additional attributes associated with producing high quality products including the ability to work positively and ethically 10.B.3 Demonstrate additional attributes associated with producing high quality products including the ability to maintenance time and projects effectively 10.B.3 Demonstrate additional attributes associated with producing high quality products including the ability to present ancestly professional and with producing high quality products including the ability to present ancestly professional and with producing high quality products including the ability to present ancestly professional and with producing high quality products including the ability to present ancestly professional and with producing high quality products including the ability to present ancestly professional and with proper etiquette 10.B.5 Demonstrate additional attributes associated with producing high quality products including the ability to respect and appreciate team diversity 10.B.5 Demonstrate additional attributes associated with producing high quality products including the ability to respect and appreciate team diversity 10.B.5 Demonstrate additional attributes associated with producing high quality products including the ability to respect and appreciate team diversity 10.B.5 Demonstrate additional attributes associated with producing high quality products including the ability to respect and appreciate team diversity 10.B.5 Demonstrate additional attributes associated with producing high quality products in	9.A.2 Conduct themselves in a respectable, professional manner 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 8.B.3 Leverage social and cultural differences to create new ideas and increase both innovation and quality of work 10.A.1 Set and meet goals, even in the face of obstacles and competing pressures 10.A.2 Prioritize, plan, and manage work to achieve the intended result 10.B.3 Demonstrate additional attributes associated with producing high quality products including the ability to work positively and ethically 10.B.3 Demonstrate additional attributes associated with producing high quality products including the ability to manage time and projects effectively 10.B.3 Demonstrate additional attributes associated with producing high quality products including the ability to multi-rosk 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 10.B.5 Demonstrate additional attributes associated with producing high quality products including the ability to participate actively, as well as be reliable and punctual 10.B.5 Demonstrate additional attributes associated with producing high quality products including the ability to respect and appreciate term diversity 10.B.8 Demonstrate additional attributes associated with producing high quality products including the ability to collaborate and cooperate effectively with teams 10.B.9 Produce Results 11.A.1 Use interpersonal and problem—solving skills to influence and guide others toward a goal 11.A.2 Inspire others to reach their very best via example and selflessness 11.A.3 Demonstrate integrity and ethical behavior in using influence and power 11.B. Be Responsible 11.B.1 Retresponsible 11.B.2 Inspire others to reach their very best via example and selflessness	9.A.2 Conduct themselves in a respectable, professional manner Others 9.A.2 Conduct themselves in a respectable, professional manner 9.A.2 Conduct themselves in a respectable, professional manner 9.B.3 Respect cultural differences and work effectively with people from a range of social and cultural backgrounds 9.B.3 Leverage social and cultural differences to create new ideas and increase both innovation and quality of work 10.A.1 Set and meet goals, even in the face of obstacles and competing pressures 10.A.2 Prioritize, plan, and manage work to achieve the intended result 10.A.2 Prioritize, plan, and manage work to achieve the intended result 10.B.1 Demonstrate additional attributes associated with producing high quality products including the polity to work positively and ethically 10.B.2 Demonstrate additional attributes associated with producing high quality products including the bobility to manage time and projects effectively 10.B.3 Demonstrate additional attributes associated with producing high quality products including the bobility to multi-riosk 10.B.4 Demonstrate additional attributes associated with producing high quality products including the bobility to multi-riosk 10.B.5 Demonstrate additional attributes associated with producing high quality products including the bobility to present oneself professional and with proper etiquette 10.B.5 Demonstrate additional attributes associated with producing high quality products including the ability to present and propreciote team diversity 10.B.5 Demonstrate additional attributes associated with producing high quality products including the ability to respect and appreciate team diversity 10.B.5 Demonstrate additional attributes associated with producing high quality products including the ability to respect and appreciate team diversity 10.B.5 Demonstrate additional attributes associated with producing high quality products including the ability to respect and appreciate team diversity 10.B.5 Demonstrate additional attributes associa	9.A.2 Conduct themselves in a respectable, professional manner Others 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 9.B.3 Leverage social and cultural differences to create new ideas and increase both innovation and quality of work 10.A.1 Set and meet goals, even in the face of obstacles and competing pressures 10.A.1 Set and meet goals, even in the face of obstacles and competing pressures 10.A.2 Prioritize, plan, and manage work to achieve the intended result 10.B.3 Demonstrate additional attributes associated with producing high quality products including the dobling to manage time and projects effectively 10.B.3 Demonstrate additional attributes associated with producing high quality products including the dobling to manage time and projects effectively 10.B.3 Demonstrate additional attributes associated with producing high quality products including the dobling to manage time and projects effectively 10.B.3 Demonstrate additional attributes associated with producing high quality products including the dobling to manage time and projects effectively 10.B.3 Demonstrate additional attributes associated with producing high quality products including the dobling to participate actively, os well as a reriable and punctural behavior in culting the obling to persect and episocial mode with producing high quality products including the obling to persect manager professional and with producing high quality products including the obling to persect manager professional and with producing high quality products including the obling to persect manager persect and empersect man density. 10.B.5 Demonstrate additional attributes associated with producing high quality products including the obling to persect and empersect emm density. 10.B.5 Demonstrate additional attributes associated with producing high quality products including the obling to presect and empersect emm density.