## Year 9 IST Assignment Three Semester Two (40%) – Game Development

## Name:

## Marking Criteria:

Item		Total
Menu & Story Scenes (10 marks)		
Menu - A title has been displayed appropriately	1	
Menu - At least one image or animation has been displayed appropriately	1	
<ul> <li>Menu - Includes buttons, dropdowns and/or text inputs as appropriate to enal the player to select an option (e.g. Start New Game, Select Level, Controls, et</li> </ul>		
<ul> <li>Menu - The buttons, dropdowns and/or text inputs function as designed to loa the correct game scene (story and minigame scenes)</li> </ul>	ad 1	
Story - Text, images and/or audio have been included to narrate the story	1	
Story - The player can progress to the next game scene	1	
Up to 4 marks awarded for going above and beyond (one for each)	4	
<ul> <li>All menu and story scenes function perfectly without any flaws, bugs typos</li> </ul>	or	
<ul> <li>Multiple story scenes have been included to tell the complete story of the original game design</li> </ul>	of	
<ul> <li>SpriteKit Features and/or Game Logic have been implemented to enhance the story (e.g. includes animations, player choices affect the story, the player's name is stored and included in story sequences)</li> </ul>	e	
<ul> <li>Exceptional creativity and/or innovation shown when using multiple scenes, SpriteKit Features and/or Game Logic to enhance the story</li> </ul>		
Minigame SpriteKit Features (10 marks)		
Able to display some kind of numerical score	1	
Tracks and correctly updates the score	1	
<ul> <li>Appropriate use of SpriteKit provided methods such as didBegin(contact:) to detect collisions between physics bodies, if needed in the game</li> </ul>	1	
Correctly using and handling touch events	1	
<ul> <li>The game can be played as designed, and doesn't crash or have bugs which significantly impact upon the intention of the game</li> </ul>	1	
The game is professionally presented	1	
Up to 4 marks awarded for going above and beyond (one for each)	4	
<ul> <li>The minigame functions perfectly without any flaws, bugs or typos</li> </ul>		
<ul> <li>At least one game mechanic has been implemented so that the play needs to interact with skills and/or strategy to achieve a level of succession.</li> </ul>		
<ul> <li>SpriteKit Features and/or Game Logic have been implemented to enhance the game mechanic(s) (e.g. power ups, increasing difficulty</li> </ul>	')	
<ul> <li>Exceptional creativity and/or innovation shown when using SpriteKit Features and/or Game Logic to enhance the game mechanic(s)</li> </ul>		

lte	em		Mark	Total
O۱	verall Pro	ogramming Quality (20 marks)		
•		orking solution, showing some attempt and minimal or limited anding of how to code using SpriteKit	0-4	
	0	The code is not close to getting the game functioning as designed		
	0	Understanding of how to use SpriteKit is lacking (e.g. code that doesn't compile, variables not defined correctly or in the wrong spot)		
•	A partially working solution, showing substantive attempt and basic understanding of how to code using SpriteKit:			
	0	General game logic has been demonstrated. Overall, the code is somewhat close to getting the game functioning as designed		
	0	Some essential features work, such as the game scene loading and the player being able to move		
	0	Creation of variables for various nodes such as the player, enemies and score display is on the right track		
	0	Update of variables to implement game mechanics is on the right track		
	0	A basic level of code comments, with appropriate naming of variables, functions, objects, etc.		
•	A fully w SpriteKi	vorking solution showing a thorough understanding of how to code using t:	10-15	
	0	General game logic has been fully demonstrated. Overall, the code achieves the goal of getting the game functioning as designed		
	0	All essential features work, such as the game scene loading and the player being able to move		
	0	Creation of variables for various nodes such as the player, enemies and score display is completely functional		
	0	Update of variables to implement game mechanics and game logic is completely functional		
	0	Provides thorough and descriptive code comments, with appropriate naming of variables, functions, objects, etc.		
	0	Appropriate use of control structures to achieve the desired game logic, particularly if statements and loops		
	0	Appropriate use of functions to minimize repetition of code and to properly organize code		
•		on and bonus band (in addition to all of the requirements of a fully solution) showing an exceptional understanding of how to code using t:	16-20	
	0	Be the implementation of a complex game which may include advanced physics simulation, integration with node.js to support multiplayer and store persistent game data, the implementation of a computer-based Al player, and/or other advanced features		
	0	Coding techniques have been masterfully implemented to achieve the complex features (e.g. use of 2D arrays to generate grids, use of objects and functions for a computer based IA player, etc)		
Marks awarded		20		
TOTAL			40	

## **Comments**