Game Specification Form Student ID: _____ Level 3/4

Marking Criteria	Describe how your game matches the criteria
Game design (10%)	
Game Goals:	Find all treasures in each level and kill the enemies.
Game Type:	Top-down 2D action game.
Core development (30%)	
Game scene (visual representation [2D,	Top-down 2D levels, each level is a different scene in Unity
2.5D or 3D], internal data structure):	and is loaded when you walk up to a door. A separate
	Game Manager scene which contains the player and other
	code needed to run across all levels.
Game flow / game progression (e.g.,	Player walks around the levels and uses doors to move
navigation, screen scrolling, levels):	between levels. The camera follows the player around the
	levels and moves to the average position of the player and
	enemies during combat. When walking up/down stairs the
	player position moves up/down inside the level accordingly.
Game interaction (e.g., action detection	WASD/arrow keys move the player around. Escape pauses
and response generation):	the game, allowing the player to see controls or quit.
, ,	Spacebar toggles the flashlight on/off. Press R to eat an
	apple. Aim with mouse and left click to sing sword,
	damaging enemies that touch the sword, or right click to
	throw a book, dealing damage on impact.
Game object (e.g., use of sprite, 3D	2D animated sprites for character and enemies. Player
objects, animation, multimedia):	animations include walking, throwing, swinging sword,
	holding the flashlight, and dying. Enemies have attack and
	idle animations.
Game mechanics (30%)	
Game rules / logics:	Player can attack with sword or throw a book projectile to
	deal damage to enemies. The flashlight is used to navigate
	dark levels. The player can eat apples Enemies will attack
	the player when you get close by, and drop apples/books
	when you kill them. Apples restore health points when you
	eat them.
Game challenges:	Player must find all treasures and kill all enemies before
	they are allowed to proceed to the next level. Enemies get
	harder as the game progresses, with a boss battle at the
	end.
Good use of game engine (15%)	
Choice (pyGame, Unity):	Unity
User input (keyboard, mouse, joystick):	Keyboard and mouse controls used. WASD/arrow for
	movement. Escape for pausing. Spacebar toggles the
	flashlight on/off. R to eat an apple. Aim with mouse and left/
	right click to attack.
Game object interaction (e.g., event	Collision detection between all objects in the game, player
triggering, collision detection):	boundaries in the levels, books bounce off the walls,
	allowing you to attack enemies around corners. Player
	coming close to enemies triggers combat, showing the
	health bar and moving the camera.
Incorporate multimedia content:	Sound effects
Other features used (e.g., asset,	2D assets used, credits in the CREDITS.md file.
incorporation of external libraries):	
Demonstrate creativity (15%)	
Game economy (e.g., support to game	Limited ammunition for books, more found by killing
type, game feedback, game difficulty):	enemies or exploring levels. Apples increase player health
	and can also be found by killing enemies and within levels.
Advanced Interaction (e.g., game physics,	Bees follow the player and swarm around the player

object tracking, steering behaviour):	uniformly.
Game optimisation and configurability (50%) [For Level 4 Students Only]	
Include optimisation to enhance game	
performance (e.g., game related functions,	
game scene and objects, interaction,	
rendering, media content):	
Make the game flexible to support making	
changes (e.g., game scene and objects,	
game flow / progression):	