Unit Title: Feel It, Fix It: From Awkward to Awesome

Overview:

This G9/10 MYP Design unit introduces students to platformer game design through a focus on game feel, iteration, and player experience. Students will create a 2D platformer using GameMaker

Studio, original sprite animations, and GitHub Copilot as an Al assistant. They begin by experiencing

an awkward prototype, analyse existing games using the GMTK Platformer Toolkit, and refine their

mechanics through iterative design.

Core Learning Tools:

- GameMaker Studio IDE

- Game Maker's Toolkit (GMTK)

- GitHub Copilot for Al-assisted coding

Major Phases:

1. Awkward Prototype: Students play/test a clunky platformer to build intuition for what makes

movement feel "off."

2. Game Feel Analysis (A3): Use the GMTK Platformer Toolkit and Celeste analysis video to

evaluate good platformer controls.

3. Design Specification (B1): Write a clear spec for how their game should feel and function.

4. Sprite Animation (B2): Design at least three custom animations for their player character (e.g.

jump, run, crouch).

5. Implementation (C2/C3): Use GameMaker Studio and GitHub Copilot to build their prototype with

functional mechanics.

6. Evaluation (D3): Evaluate the success of the game using self-testing and peer feedback.

7. Al Reflection (D4): Refl	ect on the im	pact of using Al	and the GMTK	toolkit on their ex	perience and
design thinking.					
Key Themes:					
- Responsive and forgiving	g control sch	emes (e.g. coyot	e time, jump bu	ffering)	
- Iterative prototyping and	feedback				
- Al as a coding partner, n	ot a replacer	ment			
- Creative control through	original sprit	e design			
Design Concepts:					
- Evaluation					
- Development					
- Function					
- Feedback					
MYP BETA Focus:					
- Criterion A3, B1, B2, C2	, C3, D3, D4				
- ATL Skills: Critical thinki	ng, evaluatin	g tools and syste	ms, design thin	king, iteration	
Reference Materials:					
- GMTK Platformer Toolki	t: https://gam	nemakerstoolkit.c	om/platformer-t	oolkit	
- GMTK Video: "The Secr	ets of Celest	e's Movement" (ι	used for A3/D3	analysis)	
- Shinobi: Art	of	Vengeance	(modern	platformer	example):
https://asia.sega.com/shir	nobi-art-of-ve	ngeance/en/			
Intended Use:					

This document is meant to be read by GitHub Copilot or other AI tools to provide development context during code assistance and feedback generation.