



Active Learning Experiences in Resourceful Thinking: Math Game Design

Marcia Mathematician	School	Mr. Kevin Durden			
Emerging/Introducing (E)	Developing (D)	Consistently Practicing (CP)			
Requires support and continual guidance	Requires occasional support and guidance and exercises some independence	Requires minimal support and guidance, is self-directed, and exercises independence			
Areas of Assessment and Reflection			E	D	CP
Critical Thinking: I can use reasoning and logic to craft a product or artifact					
Founded on a mathematical concept as the game engine: number and operations; ratios and fractions; algebra and equations; geometry and measurement; data and graphing; probability.					
Focused on Skills and Logic: players can form strategies or recognize patterns within the game rather than relying on randomness, chance, or luck.					
Creative Innovation: I can use my experience and knowledge to find unexpected connections					
Engaging Storytelling/Worldbuilding: the goal, theme, or setting enriches the game experience and creates a feeling of accomplishment for victorious players.					
Synectics: bringing together diverse or contrasting elements in a surprising way to provide a pleasing sensory, emotional, or social-collaborative experience..					
Construction: I can commit to my vision, persist in the work, and take pride in the result					
Design Execution/Technology: gives physical form to an idea, plan, or model with precision and accuracy; Greek, techne, "art, skill of hand"; and -logia, "thought" or "reason").					
Game Directions/Gameplay Example/Tutorial: a conscious focus on connecting players and the game quickly and easily, without frustration, anxiety, or negative tension.					

Student Reflection:

ALERT Mission Statement

The Richland School District Two ALERT program for academically gifted students, in association with families, the district and global community, affords each learner unique challenges to inspire the pursuit of highest academic standards by providing rigorous, differentiated curricula that cultivates excellence in leadership and life-long learning.