

# Advantages and Disadvantages of Using Games for Learning

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# Advantages

- Using games in the classroom lends itself to engaging the learners as well as creates an environment of experiential learning.
- The interaction in these games creates a better understanding for the learners in regards to information, tools, materials, and even the other learners.
- Creates an “Engaged Learning Design”

# How Game Design can Influence Instructional Design

- Analyzes the current movement toward using games and game design to enhance teaching and learning
- Creates an environment that can analyze the perspective, narrative, and interactivity of the learners amongst one another
  - Perspective
    - Broad view vs. One persons view
  - Narrative
    - Ex: Quest Atlantis framework of teaching through a storyline
  - Interactivity
    - Learners participating together in a game to promote their learning

# Perspective

## □ Types of Perspectives:

- Early game design consisted of Orthographic View
  - One Frame (ex: Pac man, asteroids, etc.)
- Moving into the game
  - There are side-scrollers which means that there is space outside of the visible window
- Isometric View: 2 ½ Dimensional
- First Person Point-of-View
- Third Person Point-of-View

## □ Relevance for Education

- “Moving the learner into the material”
- Project/ Problem based learning

# Narrative

- Creates a cognitive framework for problem-solving
  - Back story
  - Scenarios
  - spatial vs. linear
- Relevance for Learning
  - Problem / Project / Case based learning
  - Plausibility is essential
    - “fantasy sustained if plausibility is maintained”

# Interactivity

- “A game is a series of interesting choices” – Sid Meier
- Choices promotes the following:
  - An engaged learner
  - Critical thinking
  - Motivation to learn

# Disadvantages

- ❑ Creates a series of developmental challenges for the learners
- ❑ Game culture and play could be a disadvantage to the learner if not designed correctly

