

Campbell (2006): Perceptions of Mobile Phones in College Classrooms Related to cell phone etiquette. **NEGATIVES** 

Campbell (2006): Perceptions of Mobile Phones in College Classrooms

Related to cell phone etiquette.

**NEGATIVES** 

Distraction:

-Ringing

-Playing games

Cheating:

- SMS



Campbell (2006): Perceptions of Mobile Phones in College Classrooms

POSITIVES:

-Tutoring

-Access Internet resources

-Connecting students, instructors, and parents

-Pervasive learning / m-learning

Campbell (2006): Perceptions of Mobile Phones in College Classrooms

POLICIES:

Campbell (2006): Perceptions of Mobile Phones in College Classrooms

Influence policies and perceptions of cell phones:

-Ownership, degree of use, experience

Age:

Campbell (2006): Perceptions of Mobile Phones in College Classrooms	Campbell (2006): Perceptions of Mobile Phones in College Classrooms
Influence policies and perceptions of cell phones: -Ownership, degree of use, experience	Influence policies and perceptions of cell phones: -Ownership, degree of use, experience
Age: -Younger people are less concerned about cheating / more tolerant for ringing	Age: -Younger people are less concerned about cheating / more tolerant for ringing
Gender:	Gender: - Females are less tolerant for ringing
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Campbell (2006): Perceptions of Mobile Phones in College Classrooms	Campbell (2006): Perceptions of Mobile Phones in College Classrooms
Did perceptions of cell phone change since 2004/2005?	http://www.surveymonkey.com/s/VM3KZ86
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Campbell (2006): Perceptions of Mobile Phones in College Classrooms	
Classrooms vs. other public places (restaurants, transportation)	Limitations of the study
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How can mobile phones AID learning?

Delacruz et. al. (2009)

### Role of Games (including LBMGs) in Education:

- -Engage students in:
  - -critical thinking
  - -problem solving
  - -communication
  - -collaboration

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Delacruz et. al. (2009)

## Advantages of using LBMGs in education (over traditional games):

- -No longer tether learners to a platform
- -Mobility, interaction, location (movement in physical space is central to game play)
- -Physical context as part of learning (situated learning)
- -Use location-specific information
- -Assessment of student behavior might be built into the game (tracking)

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Delacruz et. al. (2009)

### Classification of Educational LBMGs:

- -Participatory Simulations (PS)
- -Augmented Reality Games (ARGs)
- -Hybrid Reality Games (HRGs)

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### Participatory Simulations (PS)

### Definition:

- -Students have active role in the simulation (influence its outcome)
   -Students interact with each other depending on their relative distance to one another
- -PS vs. microworlds (= computer based simulations of complex systems)
- -Physical environment = primary play space

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# Participatory Simulations (PS): Virus (MIT Teacher's Education Program) Wires Set Performed Performed on the Control of Control of



Virus (Thinking Tags)



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## Participatory Simulations (PS): Savannah (FutureLab, UK – 2003)

### Augmented Reality Games (ARGs)

### Definition:

- -Place dependent
- -Simulated information on mobile devices + real world environment
- -Primary space = physical space (augmented with digital information)

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### Augmented Reality Games (ARGs):

Environmental Detectives (MIT Education Arcade, 2003)







### **Hybrid Reality Games (HRGs)**

### Definition:

-Play space = physical + digital

-Information spread through both environments

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### Hybrid Reality Games (HRGs):

Frequency 1550 (Waag Society, The Netherlands -- 2005)





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### Location-based Mobile Games / HRGs:

### **Educational affordances**

- 1. Critical Thinking / problem solving
- 2. Communication / collaboration
- 1. How can LBMGs facilitate critical thinking / problem solving?

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### Location-based Mobile Games / HRGs:

- Q: How can LBMGs facilitate critical thinking / problem solving?
- a) Enable exploration of abstract ideas <u>without real-world consequences</u>
   (examine emergent patterns, make sense of date, generate text hypothesis, solve problems)
- b) Problematize situation (understand cause/effect relationships)
- Allow exploration of the problem space in different capacities (First and 3<sup>rd</sup> person perspective, role-play)

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### Location-based Mobile Games / HRGs:

### **Educational affordances**

- 1. Critical Thinking / problem solving
- 2. Communication / collaboration
- 2. How do LBMGs successfully include communication and collaboration into game design?

### Location-based Mobile Games / HRGs:

- 2. How do LBMGs successfully include communication and collaboration into game design?
- a) Assign players distinct roles (players must work together)
- b) Place-specific information
- c) Distributed information

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