

# Amy J. Marin

### **Phoenix College** amy.marin@phoenixcollege.edu

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Speaking About... Webinar Week October 12 – 16, 2015

# Gamification Techniques ANY Instructor Can Use to Engage, Assess, and Energize Students



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### Goals:

I. Define Gamification and expand your thinking about games

2. Provide a variety of examples of how games can be used in the (psychology) classroom

3. Give you tools/inspiration for designing your own games

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# What is Gamification?

# Using the principles of game mechanics to engage people, motivate action, and promote learning.

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# <u>Gamification (in education)</u> <u>should not be confused with:</u>

- Gamification for Business/Profit
   Digital Game-Based Learning (DGBL):
  - Instructional Games
  - Serious Games
  - Scenario-based games

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## Gamification is "big business" for business

- Customer loyalty
- Brand Awareness
- Employee Motivation
- Customer Engagement
- Recruitment
- Goal Tracking

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Costly software/products/consultants
 Competition oriented (e.g. use of leaderboards)

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### Virtual Simulations Help Train Psychologists, Psychiatrists

By RICK NAUERT PHD Senior News Editor Reviewed by John M. Grohol, Psy.D. on August 6, 2012 ~ 1 min read

Following on the heels of flight simulation training, medical simulation and now virtual mental health simulations train health professionals by realistically mimicking patient symptoms.

New simulators mimic the symptoms of a patient with clinical psychological disorders, according to new research presented at the American Psychological Association's 120th Annual Convention.

"As this tochnology continuos to



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## **Effectiveness of GBL in Higher Education**

(see Meta-Analyses by Girard et al., 2013; Li & Tsai, 2013; and Sitzmann, 2011)

**Results** for student learning **are mixed**. Some of the factors that moderate the effectiveness of computer-based games over traditional methods are:

- The type of game
- Whether the game was a supplement or replacement to other instructional methods
- Whether the computer game is compared to active or passive traditional methods

Barriers: Finding a game, risks w/online games, resources

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Party games Ice breakers **Conversation** games Drinking games Guessing games **Board** games Card games Dice games Role-playing games Strategy games

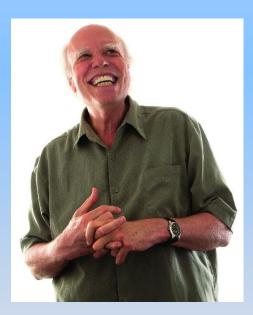
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Cooperative games Narrative games Mystery games Word games Team games Outdoor games Solitaire games **Puzzles** Skill games Travel games

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"[gamification] neither implies nor precludes the use of games or game-like activities but inherently and more importantly shifts the focus from the actual game to the gameplay elements and principles of learning found within."



James Paul Gee

Gee, J. P. (2008). What video games have to teach us about learning and literacy. Basingstoke: Palgrave Macmillan.

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## Everything works..... or does it?

**Cooperative Learning Group Discussions Service-Based Learning Pop Quizzes Experiential Learning Presentation Software Advance Organizers Audience Response Systems Podcasting Active Learning Blogs** Student-Conducted research Wikis **Self-Study Peer Evaluation Case Studies Collaborative Learning** 

Structured Reflection Micro-Activities Storytelling Interleaving Just-in-time teaching Concept mapping Role Playing Flipped Classroom Practice Testing Gamification



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# Games often include a combination of the following elements:

- Individual control
- Positive and negative feedback
- Careful balance of reward/challenge
- Cognitively stimulating
- Motivating and Fun

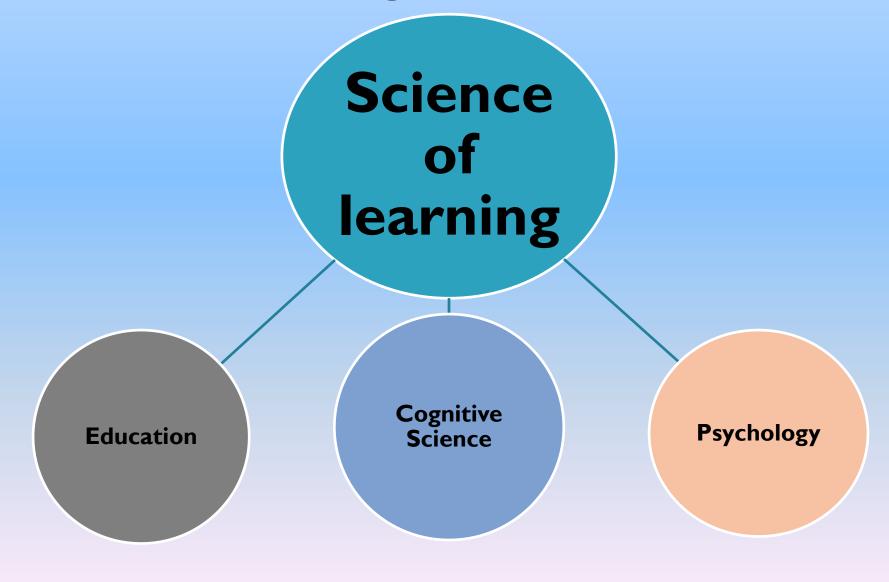


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# The game should be consistent with the science of learning...



# HOW LEARNING WORKS

Susan A. Ambrose Michael W. Bridges | Michele DiPietro Marsha C. Lovett | Marie K. Norman

for Smart Teaching

FOREWORD BY RICHARD E. MAYER

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I) Student's prior knowledge can help or hinder learning 2) Organizing knowledge is important to learning 3) Motivation influences learning 4) to develop mastery students need practice and application 5) targeted feedback is important to learning 6) social and emotional classroom climate is important to learning 7) to be self-directed, students must monitor their learning and adjust.

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### 8 Cognitive Principles of Learning (Marin, 2014)

1)Learners have short **attention spans** 2)Learners are visual processors 3)Learners are easily overloaded 4)Learners must connect to the past 5)Learning is tied to emotion 6)Learners need distributed practice 7)Learners need **feedback** 8) Learners benefit from practice testing

Marin, A. (2014). Teaching with the brain in mind: What Neuroscience can (and cannot) tell us about how students learn. *The Cross Papers, Number 17*, League for Innovation in the Community College.

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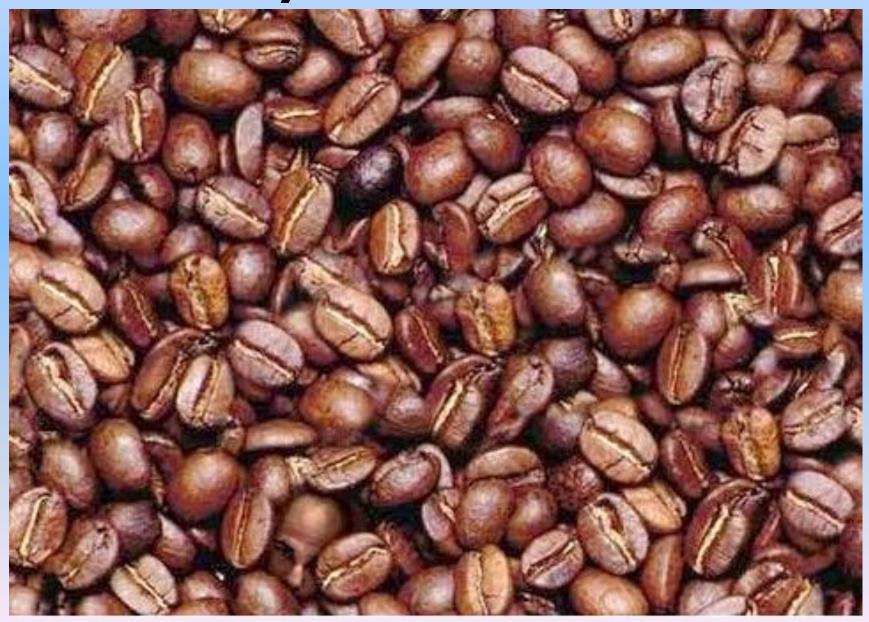
## **The Educational Goal/Purpose:**

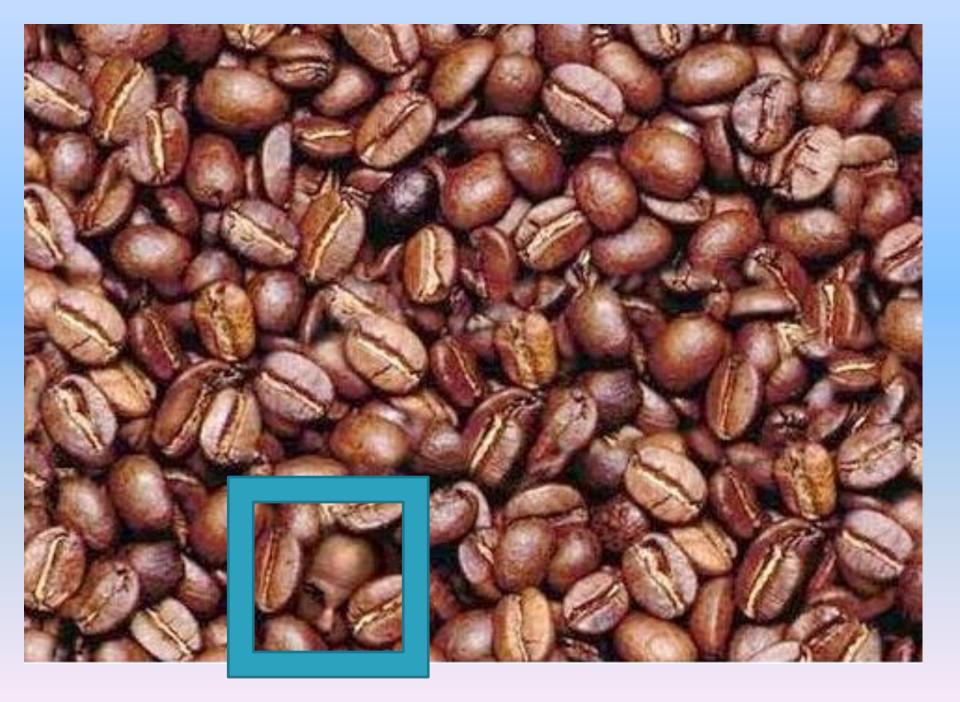
I)Engagement 2)Social Interaction/Collaboration **3)Content Delivery 4)Content Mastery/Application 5)General Education Outcomes** 6)Feedback/Assessment

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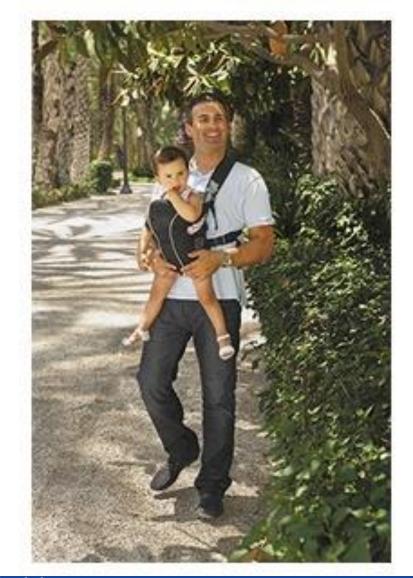
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## Can you find the face?

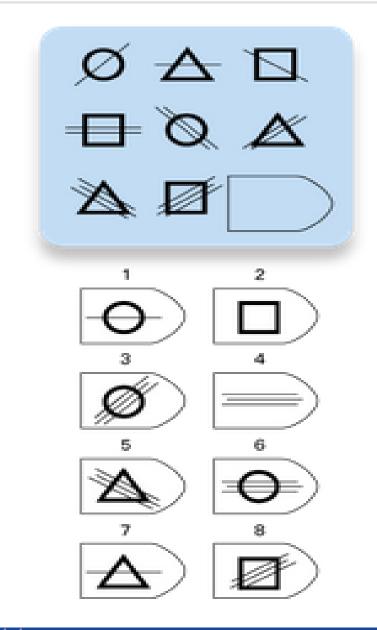




### What's wrong with this picture?



Psychology Amy Marin | Roger Hock Copyright © 2016 by Pearson Education, Inc. All Rights Reserved



Psychology Amy Marin | Roger Hock Copyright © 2016 by Pearson Education, Inc. All Rights Reserved Games are naturally motivating because they touch on basic human motives:

Drive to personalize
Innate curiosity
Desire to overcome challenges

Koepp, M. J., Gunn, R. N., Lawrence, A. D., Cunningham, V. J., Dagher, A., Jones, T., Brooks, D. J., and Grasby, P. M. (1998). Evidence for striatal dopamine release during a video game. *Nature* 21, 266–268.

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Speaking About... Webinar Week October 12 – 16, 2015 ALWAYS LEARNING

# "Engaging" Game Mechanics:



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## **The Educational Goal/Purpose:**

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# What's on my back?



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#### **Characteristics of Pseudoscience**

Although, on the surface, it may seem difficult to tell the difference between a true science and the many false ones out there, <u>pseudosciences</u> generally can be identified by the following characteristics:

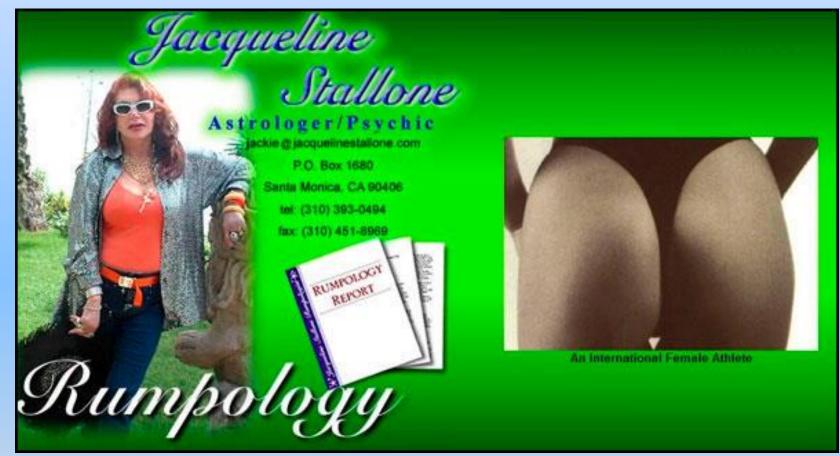
- Lack of legitimate training: There is a lack of legitimate courses or training in the field. There are no
  accredited or widely accepted university degrees in the field. A person can label themselves as an expert or
  practitioner without any formal training.
- Untestable claims: <u>Pseudosciences</u> rarely offer specific definitions, or measurements that could be tested and repeated by other researchers. For example, how could anyone scientifically measure or test the effects that stars have on our lives?
- Use of misleading language: <u>Pseudosciences</u> use technical-sounding but meaningless jargon meant to convince people of their credibility. Often these pseudoscientific terms are made up or used incorrectly, misleading the public.
- Reliance on testimonials and anecdotal evidence: You've probably seen an infomercial or heard an
  advertisement for a psychic in which satisfied customers gush about how the psychic changed their lives.
  Mainstream sciences avoid personal testimonials precisely because one person's experiences may not be
  usual or typical of most people and it's easy to be fooled that something was effective when the result was
  mere coincidence (Herbert et al., 2000).
- Failure to replicate: Pseudoscientists often refuse to share their methods or data with other scientists, making it impossible to test or reproduce their research findings. Good scientists are used to having their work "peer reviewed" (analyzed and reviewed by other scientists) and welcome replications. In contrast, pseudoscientists will often refuse to allow their work to be reviewed by anyone else; they keep it *secret*, which is the antithesis of science.
- Absence of change or progress: In most sciences, theories and ideas change with time, as more and more
  information is collected. Pseudoscientific beliefs tend to be fixed over time; very little change occurs despite
  decades of existence. Astrology, for example, hasn't changed fundamentally in the last 2,000 years (Hines,
  1988). Science moves us forward in our understanding of the world; pseudoscience is static.
- Well marketed and costly: <u>Pseudosciences</u> are often used for profit and can be seen in infomercials and advertisements. One review of the pseudoscience called "energy psychology" found that purchasing a complete online training program for one aspect of the belief, called "thought field therapy" (whatever that is), could cost users upwards of \$100,000 (<u>McCaslin</u>, 2009)!

Dry handout listing criteria for recognizing pseudoscience ....BORING!



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#### **TOTAL Rumpology Report.**

This report covers all aspects of rumpology -- an analysis of the LEFT cheek (your past) the Right Cheek (your future) and the Gluteal Cleft, (your natural personality characteristics).

#### Price: \$600.00

LEFT Cheek Rumpology Report. This report focuses on your left rump cheek, that part of your derriere that describes your past. It helps you understand where you are coming from and the things in your past that motivate your actions in the present.

#### Price: \$300.00

<u>RIGHT Cheek Rumpology Report.</u> This report focuses on your Right rump cheek, that part of your derriere that describes your future It helps you understand if your plans will take you "ass backwards" and mar your future by revealing your natural inclinations and tendencies.

#### Price: \$300.00

<u>GLUTEAL CLEFT Rumpology Report</u>. This report helps you understand who you are, your natural personality and tendencies. When you learn to "know thyself", you are capable of taking advantage of all of life's opportunities because you understand why some of them appeal to you, and why some of them do not. **Price: \$250.00** 

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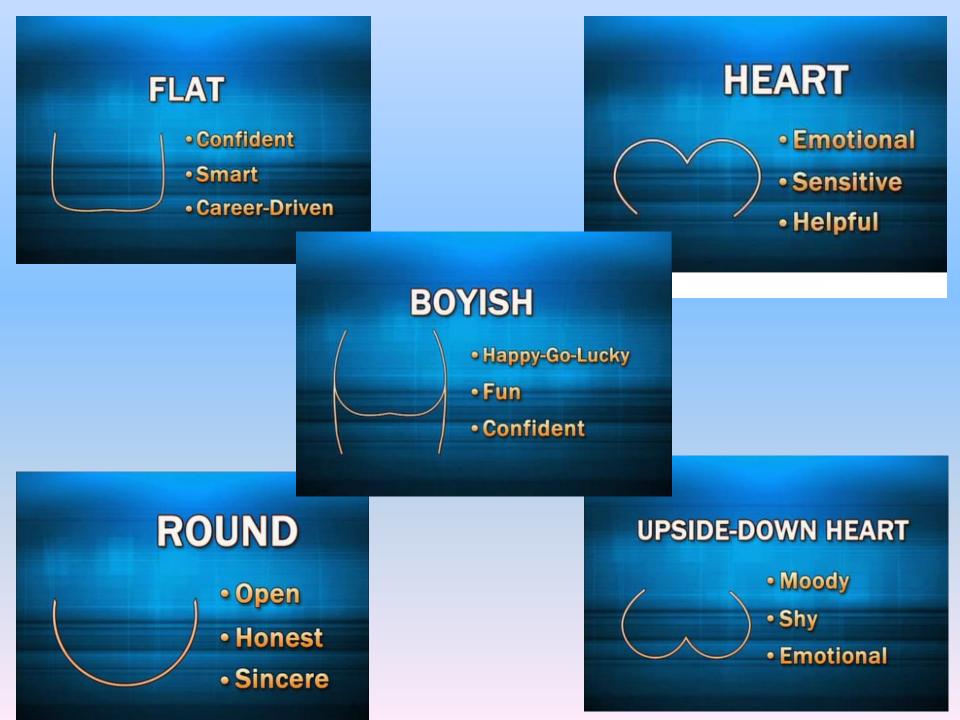




"Rumpology" episode on The Doctors TV show.

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### **TEAM MEMBER NAMES:**

SCAVENGER HUNT: Is *Rumpology* a Pseudoscience? <u>Instructions</u>: Using your phone, laptop, and/or handouts provided by the instructor, gather information and answer the following questions to determine whether *Rumpology* is a legitimate practice or a pseudoscience. When you've found all the information, ring your buzzer!

#### **Characteristics of Pseudoscience**

Although, on the surface, it may seem difficult to tell the difference between a true science and the many false ones out there, <u>pseudosciences</u> generally can be identified by the following characteristics:

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Handout on Criteria for determining whether something is a pseudoscience

#### CRITICAL THINKING: Is Rumpology a Pseudoscience?

Instructions: Using your phone, laptop, and/or handouts provided by the instructor, gather information and answer the following questions to determine whether <u>Rumpology</u> is a legitimate practice or a pseudoscience.

1) What is *Rumpology*? What do *rumpologists* claim they can tell you during a reading?

TEAM MEMBER NAMES

2) How does one train to become a <u>cumpologist</u>? Can you find a legitimate course in <u>cumpology</u>? Can you earn a degree in <u>cumpology</u>? How many <u>cumpologists</u> exist worldwide?

 RESEARCH: Is <u>rumpology</u> based on scientific research? Can you locate a legitimate research article on <u>rumpology</u>? (Hint: Use Google Scholar and search keyword "<u>Rumpology</u>")

4) You received a handout listing the characteristics of pseudoscience. Does <u>rumgology</u> meet any of these criteria? Give specific examples from your reading.

Question the students must answer as a team

### Rumpology Information



**Recommended Website:** 

www.jacquelinestallone.com/rumps.html

**Recommended Youtube Videos:** 

"Rumpology" The Doctors (4:07 min)

<u>Rumpologist</u> Sam Amos on This Morning (2:31 min)

Packet of articles, suggested websites and youtube videos.

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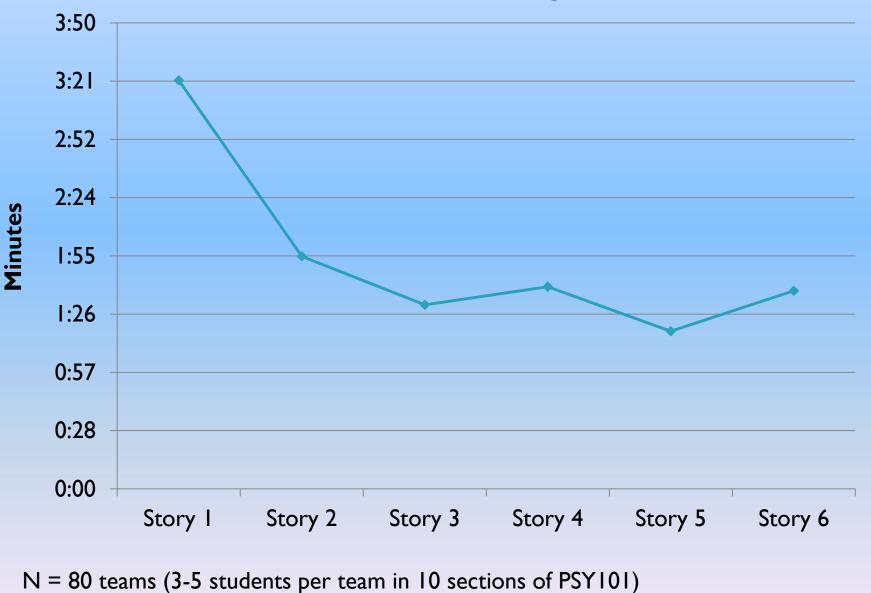
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Every time the pup	#1 – Pottying py urinates in the house, the owner hits in fear. Now simply the sight of the ne	the dog with a newspaper. When hit,		
Unconditioned Stin	nulus (UCS):			
Unconditioned Res	ponse (UCR):			
Conditioned Stimulus (CS):				
Conditioned Respo	nse (CR):			
Team Number       #2 – Musical Ice-Cream         Kaitlyn gets excited about eating ice cream. Whenever the ice-cream tristreet playing music, Kaitlyn gets excited to purchase and eat an ice-createnears the music coming down the street, she gets excited in anticipation         Unconditioned Stimulus (UCS):	am cone. Now when she	Team Number		
Brian was really looking forward to lunch. His mother prepared Unfortunately, the mayonnaise she used had been left out too long after eating, Brian felt extremely nauseated and had to rush to the mere mention of a tuna sandwich would send Brian scurrying to th stomach. Unconditioned Stimulus (UCS):	Conditioned Response (CR):	Team Number		

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### **Classical Conditioning Game**



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In support of the MCCCD General Education Statement, five general education areas are assessed at Phoenix College:

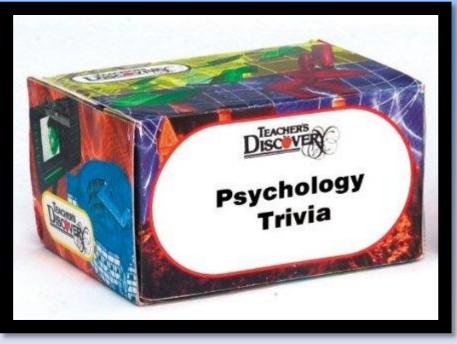
- Critical Thinking Students will be able to apply critical thinking skills to solve problems, make informed decisions, and interpret events.
- Information Literacy Students will recognize when information is needed, identify appropriate types of information, and locate, evaluate, and use information effectively, ethically, and legally.
- Numeracy Students will use numerical concepts and data effectively.
- Oral Presentation Students will plan and deliver an oral presentation to a target audience at a satisfactory level.
- Writing Students will use writing skills to communicate effectively.

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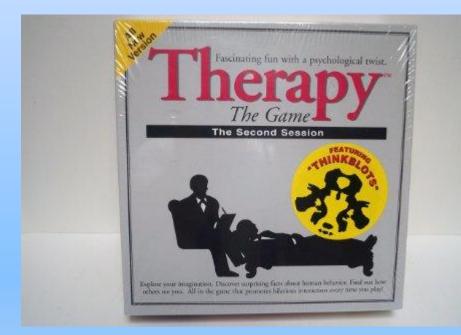
# **COTS** for Critical Thinking

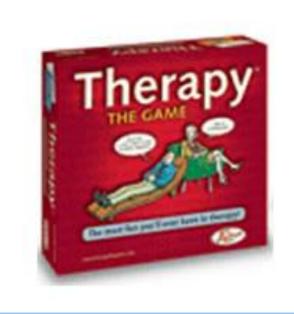




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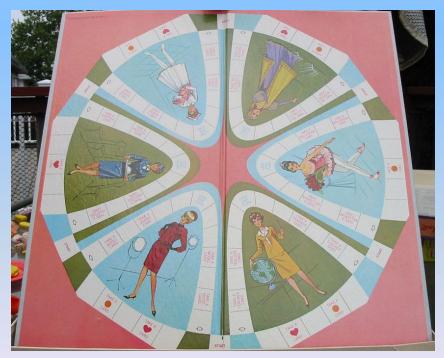




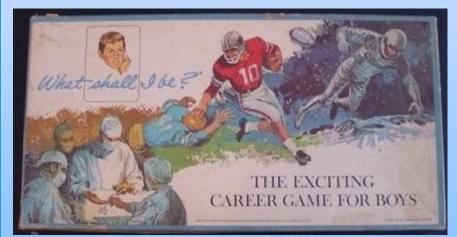








Options: Charm school for modeling, nurse, actress, teacher, ballet dancer





Options: Scientist, doctor, athlete, engineer, astronaut.



'Blacks & Whites' (1970) Psychology Today

Stereotyping, prejudice, discrimination, social roles, intergroup conflict, social comparison, traditional racism vs. modern racism.

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"games can constantly assess the learner's ability from the moment they start playing to the moment they stop; this is a promise few other pedagogic tools can deliver on."

### Nick Tannahill, Aston University

Tannahill, N., Tissington, P. and Senior, C. (2012). Video games and higher education: what can "Call of Duty" teach our students? *Front. Psychology*, **3**, 210. doi: 10.3389/fpsyg.2012.00210

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# learning catalytics

## A "bring your own device" student engagement, assessment, and classroom intelligence system.



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## 1)Could I use Learning Catalytics as a way to deliver games?

2) Could I use this technology for assessment purposes? **\*Assessment of teaching** \*Assessment of student engagement **\*Assessment of student** learning

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## **In-Class Exam Review Session**

### Act it out!

### **Answer it!**

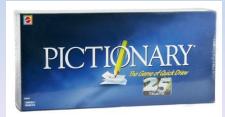
### **Describe it!**



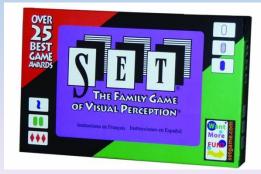
### TRIVIAL PURSUIT MASTER EDITION



### **Draw it!**



### **Recognize it!**



### Sculpt it!



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### learning catalytics

Courses Questions Classrooms Training Help Feedback

Student view

#### <u>My Courses</u> > Introduction to Psychology > PSY101 Game Review - Exam #2

#### Questions

ormat	Question	Points	
1. multiple choice	ANSWER IT! The inability to smell is called:	1	-
2. slide	DRAW IT! BOBO DOLL Hint: The bobo doll was the inflatable clown used i		-
3. slide	SCULPT IT! IMPRINTING Hint: Conrad Lorenz studied imprinting in Geese	0	-
4. multiple choice	ANSWER IT! some information in our fleeting is encoded int	1	-
t 5. slide	DESCRIBE IT! Self-Awareness Hint: Usually in the second year of life, i		-
6. short answer	RECOGNIZE IT! Which infant reflex is being depicted here?	1	-
7. multiple choice	ANSWER IT! What was SALIVATION in Pavlov's experiment?	1 😫	
8. slide	ACT IT OUT! ANOSMIA Hint: Anosmia is the inability to smell.	0	
9. slide	DRAW IT! RELATIVE SIZE Hint: Relative size is one of the monocular cue	0	
10. slide	SCULPT IT! LINEAR PERSPECTIVE Hint: This is a monocular cue for depth	0	
11. composite sketch	RECOGNIZE IT! Whether you see a snail or an elephant in this picture depen	0	
12. many choice	ANSWER IT! Perceptual constancies include which of the following?	1	
t 13. slide	DESCRIBE IT! GENERALIZATION Hint: Generalization is a term Pavlov used	0	
14. short answer	RECOGNIZE IT! Which perceptual constancy is illustrated here?	1	
15. multiple choice	ANSWER IT! \_\_\_\_\_ memories are said to linger in the mind fo	1	
16. slide	ACT IT OUT! Color Blindness Hint: Color blindness is the inability to	0	
17. slide	DRAW IT! VISUAL CLIFF Hint: The visual cliff is a special table design	0	
<b>18.</b> slide	SCULPT IT! OPTIC NERVE Hint: This optic nerve exits the back of the ey	0	
19. multiple choice	ANSWER IT! You are drinking a strong cup of coffee that is particularly bi	1	
20. short answer	RECOGNIZE IT! Which Gestalt law of grouping is illustrated here?	1	
21. slide	DESCRIBE IT! CUTENESS RESPONSE Hint: We have a tendency to respond to	0	
22. long answer	ANSWER IT! When you get out of the car at your friend's house, you smell a	0	
23. slide	DRAW IT! GRASPING REFLEX Hint: Infants are born with the reflex to gri	0	

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### Students worked in teams of 3-4 with a minimum of one device per team.



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## learning catalytics

### Session 33926645

slide question

DRAW IT!

**RELATIVE SIZE** 

Hint: Relative size is one of the monocular cues for depth. Objects further away appear smaller than objects close up.

C Refresh

Send a message to the instructor

< Join another session

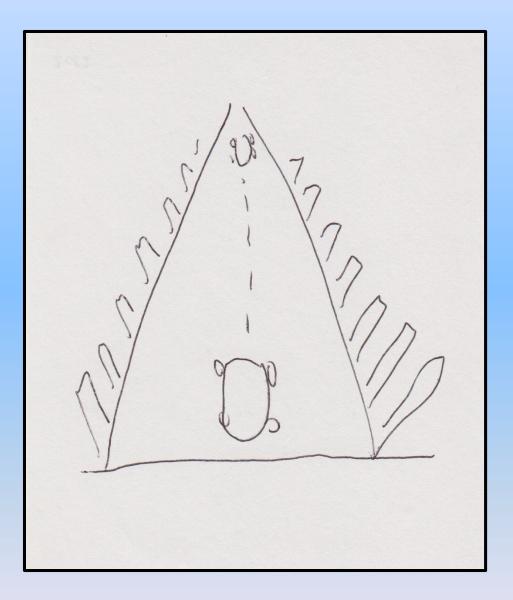
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### Student Drawing of "Relative Size"

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### learning catalytics

### Session 33926645

slide question

SCULPT IT!

IMPRINTING

Hint: Conrad Lorenz studied imprinting in Geese. He found that baby geese "attach" to their mothers shortly after hatching and from that point will follow her wherever she goes.

Book Definition: the process by which certain animals form attachments during a critical period very early in life.

Refresh Send a message to the instructor

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# Student sculpting "imprinting"



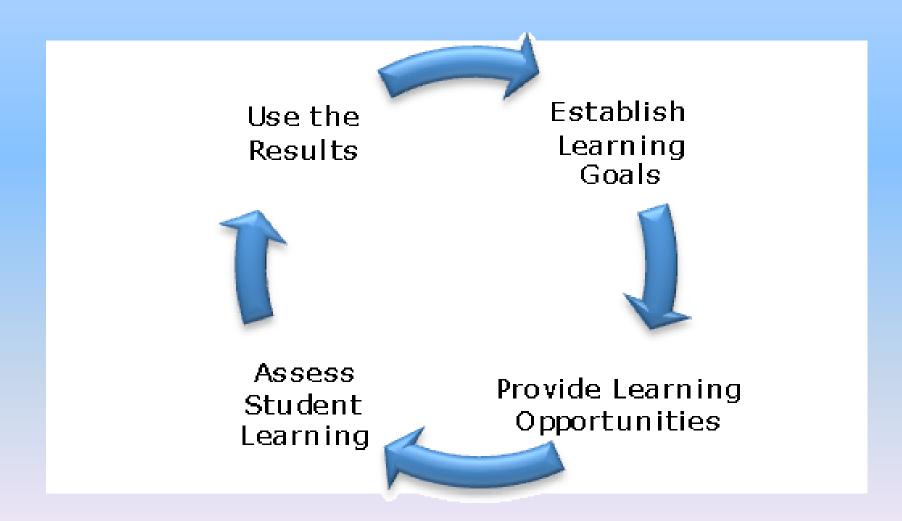
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### Student sculpting the "optic nerve"

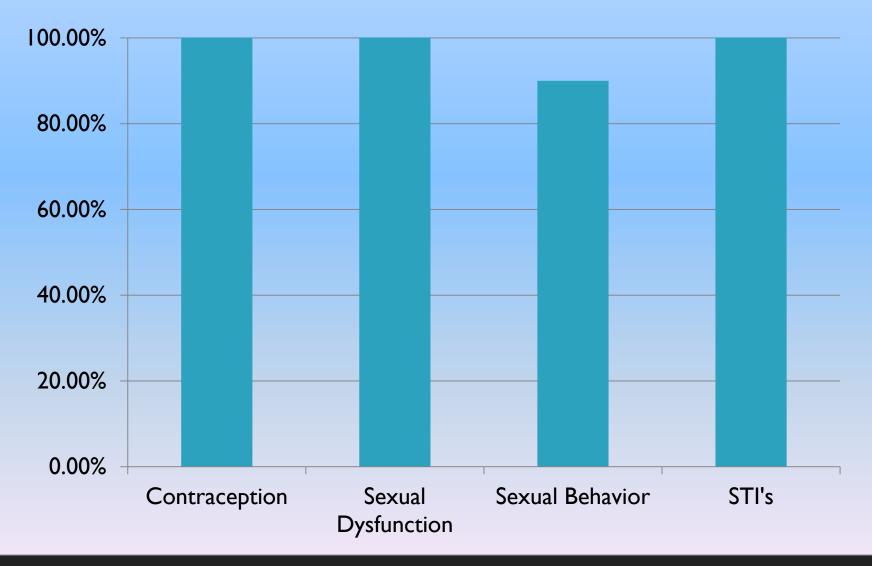
### Assessment



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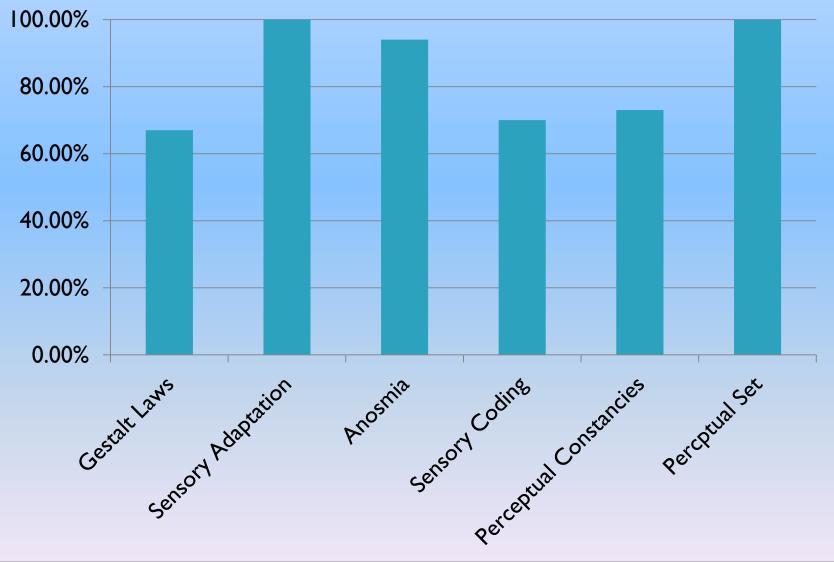
### Assessment of student mastery PSY277 (Human Sexuality)



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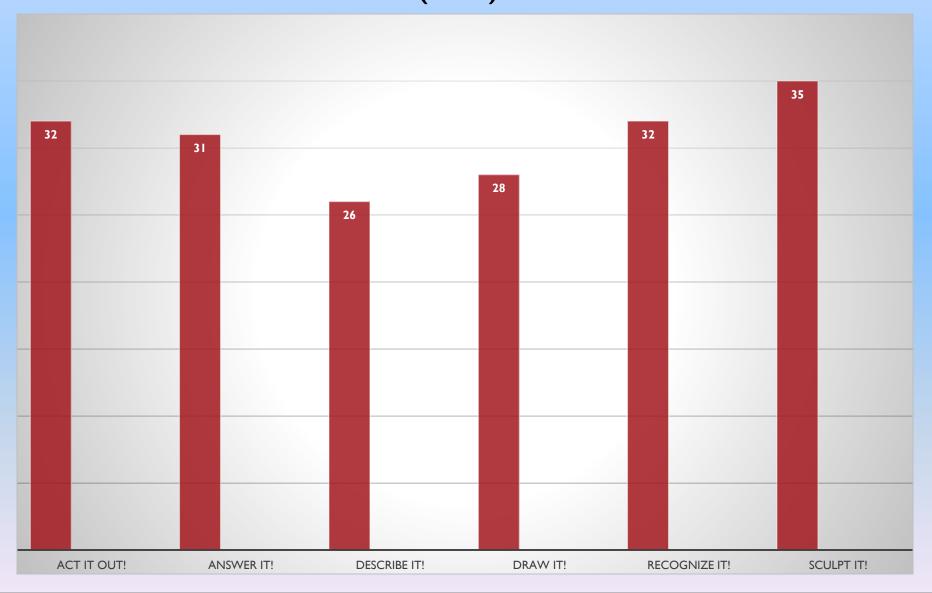
### Assessment of student mastery PSY101 (Intro. to Psych)



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### Assessment of student enjoyment of question/activity type (N=63)



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### Assessment of Mobile Device Gaming Experience

# Did you enjoy the Learning Catalytics experience? What did you like most/least?

"Yes, interaction is key when learning."

"....I liked the sculpting and drawing. Helps if you are a visual learner."

"To be honest I really enjoyed doing this. It was another way to study. FUN!!"

"It was cool to have the responses and answers so quickly."

"I like the hints given at the bottom."

"I enjoyed using this program because we all learn differently and the different types of methods we use help us get it stuck in our brain."

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### Goals:

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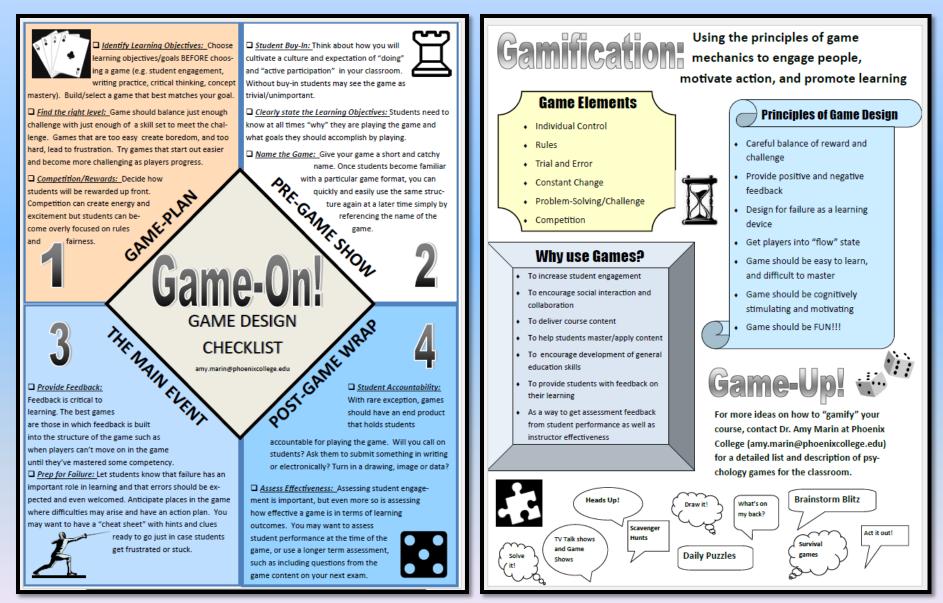
I. Define Gamification and expand your thinking about games

2. Provide a variety of examples of how games can be used in the (psychology) classroom

3. Give you tools/inspiration for designing your own games

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### Checklist for good game design



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### **Game Design Checklist:**

Identify Learning Objectives
Find the right level
Competition and Rewards

2

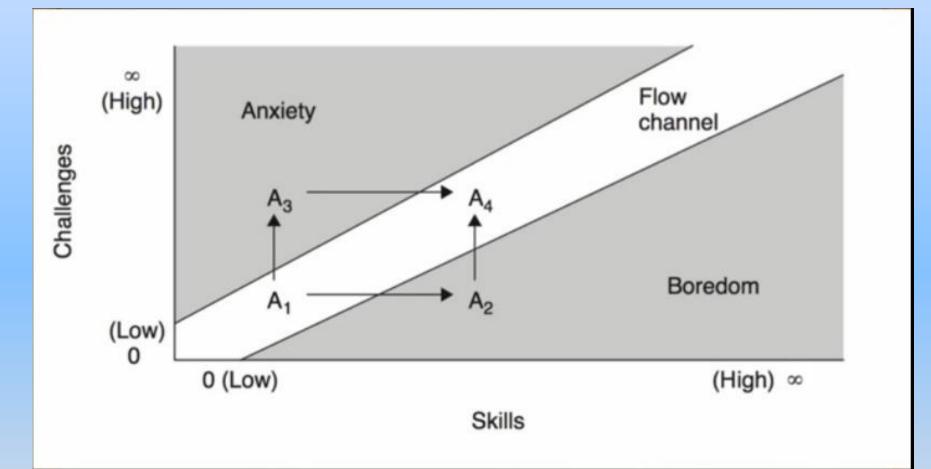
Student Buy-in
Clearly state the learning objectives
Name the game

3

Provide feedbackPrep for failure

4

Student accountabilityAssess Effectiveness



# Are students "in the zone"?

Schell, J. (2014). The Art of Game Design: A Book of Lenses. Oxford, UK: Elsevier.

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### **Game Design Checklist:**

Identify Learning Objectives
Find the right level
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Name the game

Provide feedbackPrep for failure

4

Student accountabilityAssess Effectiveness

## **Competition in games:**

# The second

 Competition brings excitement and motivation

### Cons:

**Pros:** 

- Competition can shift the focus from the means to the ends
- Can increase anxiety/threat (e.g. fear of failure)
- Accentuates differences in ability levels

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### Healthier ways to use competition:

I)Encourage competition with past performance over competition between groups

# 2)Focus on teams/collaboration over individual performance.

3) The prize is not "real" (e.g. the reward should not be points towards grade)

# 4) The emphasis is on fun and mastery OVER external rewards.

Shindler, J. (2009). Examining the use of competition in the classroom. In *Transformative Classroom Management:* Positive strategies to engage all students and promote a psychology of success. Jossey-Bass.

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# Take home message....

By using simple gamification techniques we can create an "edutaining" classroom experience that's both enjoyable and consistent with how students learn.

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## Handouts:

# "Game-on" Checklist

 Game Ideas for the Psychology Classroom

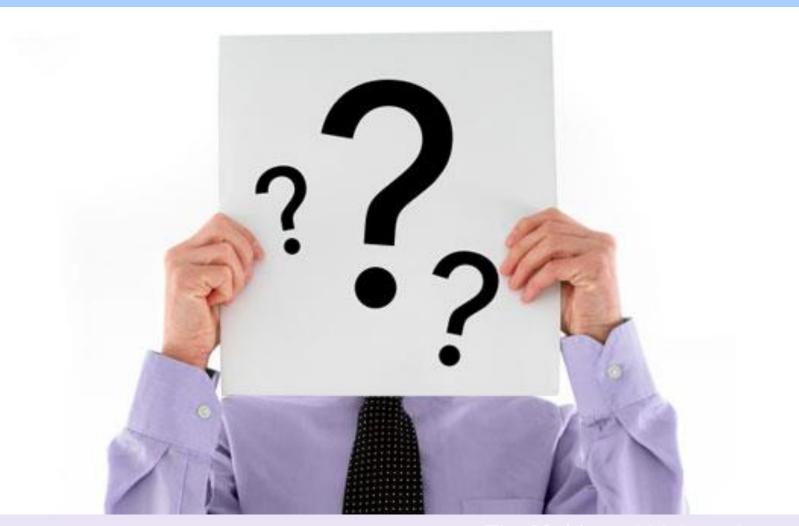
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# **Questions or Comments?**



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