USING A LIGHTBOARD IN AN ONLINE MATH COURSE TO EMULATE THE F2F EXPERIENCE
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What is a Lightboard?
AGENDA

• 30 minutes (presentation)
• 5 minutes (personal reflection)
• 10 minutes (Q & A)
MULTIMEDIA INSTRUCTION

Definition: presenting words and pictures to enhance learning.
Examples:
  • On-screen text
  • Audio narration
  • Animation
  • Video
  • Interactive illustrations

EFFECTIVE MULTIMEDIA VIDEOS

VIDEO RATING EXERCISE
Let’s Compare:

Video A
Video B
Video C
Video D
Video E
Video A
On-screen text with Audio Narration
Video B
Chalkboard Video
VIDEO C
Screen Capture With Audio Narration
Video D
Lightboard Video
Video E
Lightboard Video
All of these examples are effective multimedia videos.

So, Why the Lightboard?
BENEFIT: The Lightboard facilitates a personal connection between presenter and viewer.

Lightboard technology emulates F2F lectures and sets the stage for appealing presentations.
NOT THE TRADITIONAL
“LOOK AT MY BACK” LECTURE
$12x^2y^5 + 30x^3y^4 + 3x^4y^3 + 30x^5y^2 - 15x^6y$

$3.4x^2y^5 + 3.10x^3y^4 + 3xy^3 + 3.10x^5y^2 - 3.5x^6y$

$3x^2y\left[4y^4 + 10xy^3\right]$
CLASS SURVEYS

Math 95 and Math 96
100+ short Lightboard videos

72.7% prefer
Instructor’s
Lightboard
Videos
27.3% prefer
Other Videos
# Viewer Retention

<table>
<thead>
<tr>
<th>Non-Lightboard Videos</th>
<th>Lightboard Videos</th>
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<tbody>
<tr>
<td><strong>Kinesiology 170:</strong> 12% Avg Retention Rate</td>
<td><strong>ITAL 113:</strong> 21% Avg Retention Rate</td>
</tr>
<tr>
<td><strong>Geology 100:</strong> 13% Avg Retention Rate</td>
<td><strong>Math 96:</strong> 62% Avg Retention Rate</td>
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<td><strong>Math 95:</strong> 10% Avg Retention Rate</td>
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UNLV SHOWCASE
WHAT IS A LIGHTBOARD?

A lightboard is a teaching tool that allows you to face the camera while writing on a transparent board.
WE PURCHASED THIS NEW BOARD IN 2018 FOR UNDER $5000
WWW.LIGHTBOARD.INFO
ONE OF OUR FIRST VIDEOS OF OUR PIONEER PROFESSOR USING THE OLD LIGHTBOARD
A RECENT VIDEO OF OUR “PIONEER PROFESSOR” USING THE NEW LIGHTBOARD
OUR LIGHTBOARD JOURNEY
HELPFUL RESOURCES

Lightboard Home:  www.lightboard.info


Interview with the Innovators (Dr. Michael Peshkin & Dr. Matt Anderson): https://er.educause.edu/multimedia/2017/11/video-increasing-student-interaction-with-lightboard

Because Science: https://www.youtube.com/channel/UCvG04Y09q0HExnIjdgaqcDQ
5 MINUTES PERSONAL REFLECTION

What did you find useful?
How can you implement this technology?
In which courses would you use this technology?

Thoughts to consider:

• Budget
• Resources
• Staff
• Faculty Buy-In
10 MINUTES

Q & A
THANK YOU FOR COMING!

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