

Lightboards:

Using innovative technology to **light** up your teaching!



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What is a lightboard?

It is an illuminated glass whiteboard and related infrastructure allowing academics to face a camera while writing and being recorded.

Widely Used:

Lightboards are used extensively in education at all levels, primary through to tertiary.
- international examples: Harvard, Stanford, Chicago, Toronto, Singapore, Cornell, Duke, Udacity, Coursera
- domestic examples: Monash, UNSW, UQ, University of Adelaide, USQ, Bond University, Federation University
More info: <http://lightboard.info/lightboards-of-the-world.html>

Positive Feedback from Users:

"innovative and engaging", "lead to a greater understanding of the material"
Smith, T., Knight, C., & Penumetcha, M. (2017). Lightboard, camera, nutrition. *Journal of the Academy of Nutrition and Dietetics*, 117(3), 70.

"This setup has many and advantages", "student response has been very positive"
Skibinski, E., DeBenedetti, W., & Hines, M. (2015). A blackboard for the 21st Century. *Journal of Chemical Education*, 92(10), 1755.

"helps maintain a sense of connection", "It would feel awkward to go back to a whiteboard"
Anderson, M. (2016). Through the learning glass. *The California Educator*, 20(5), 25.

How is it used?

An academic is filmed talking and writing on the lightboard while looking at the camera. The video is then uploaded to the LMS or used in class. Students could also use the lightboard for their assignments.



Why should I use it?

It is an easy-to-use way to create engaging videos for students. There is no software to learn, just talk and write like you've been doing for years.

ECU Impact and Relevance

ECU Strategic Plan:

- 1.1 support quality teaching and innovation
- 2.2 develop ... personalised... and technology-enhanced learning experiences
- 2.3 develop...online delivery, wholly and blended

Student Success Blueprint:

- 4.1 develop resources to support student engagement with curriculum
- 4.3 academic skill development... including digital readiness

Technology Enhanced Learning (TEL) Standards: Section 2

choose learning materials... variety of sources / formats
provide recordings ... suitable for online
design learning activities that are actively engaging
provide short videos of core concepts



How can I get involved?

If you are interested in learning more about lightboards or giving it a try contact Ron Kordyban at the CLT. email: r.kordyban@ecu.edu.au

Benefits of using a lightboard

new look but familiar style

replayable content

very easy to make

varied teaching style & methods

good for flipped classes

great for visual learners

reusable for multiple years

very engaging and popular

proactive & efficient delivery

Using lightboards in higher education

As the educational landscape around us changes, adapting to the new digital revolution and the diverse educational needs and challenges of the 21st century student, the way we teach and learn must also change.

Using a lightboard to create short educational videos is a great way to bridge the gap between more traditional teaching methods and the new digital expectations of university learners. It also provides an easy way for adapting face-to-face teaching into online and blended modes of delivery.

From the student's perspective, lightboard videos are engaging, personal and can be paused and repeated. They also can be viewed privately anytime on any device. They especially appeal to online, international and visual learners.

For a teacher, creating lightboard videos is a quick and easy way to transform the familiar 'talk and chalk' style teaching into the digital age. This technology-enhanced-learning tool has a low learning curve, can be done quickly and provides an ideal way to create personal and engaging learning videos.

Tips when using a lightboard

Keep videos short	Try to avoid smudges	Plan & use side notes	Speed up drawing lengthy diagrams	Use point form & pictures	Trace or pre-draw images onto glass	Wear dark colours



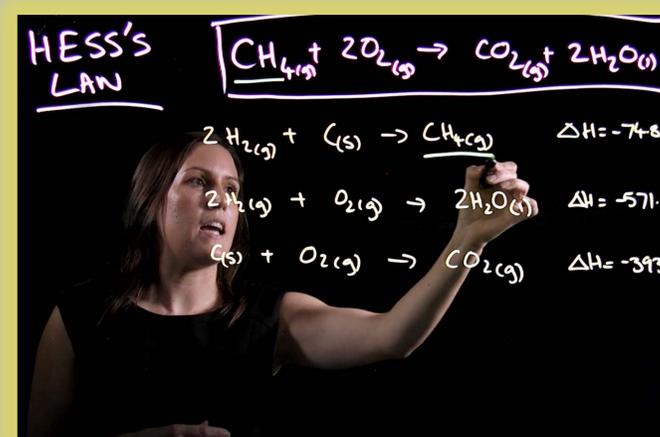
Additional Resources:

NW Lightboard info webpage home
Northwestern University
<http://lightboard.info/>

7 Things you should know about lightboard
Educause Learning Initiative
<https://library.educause.edu/~media/files/library/2014/8/eli7111-pdf.pdf>

Evaluation: Lightboard
Technology Demonstrators Project
University of Southern Queensland
<https://www.usq.edu.au/~media/USQ/Learning-and-Teaching/demonstrators/Evaluation-Lightboard.ashx>

Lightboard- creating more flexible learning
Education Technology Solutions
<https://educationtechnologysolutions.com.au/2017/09/lightboard-creating-more-flexible-learning/>



Limitations/Challenges

not for a live face-to-face class

studio & editing required

not interactive-can't answer ?s