Changing space Changing practice Changing culture

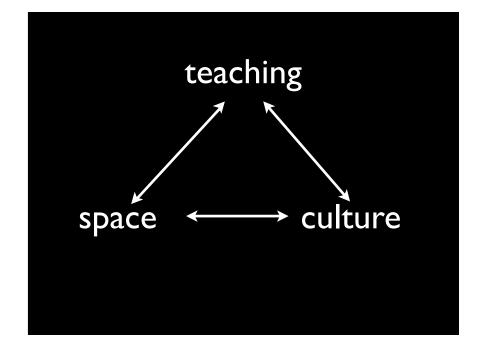
Oliver Dreon, PhD @ollied Millersville University What makes your heart sing? Why?





teaching

teaching



"Technology is any modification of the natural world made to fulfill human needs or desires. Although people tend to focus on the most recent technological inventions, technology also includes a myriad of other devices and systems that profoundly affect everyone in a modern society."

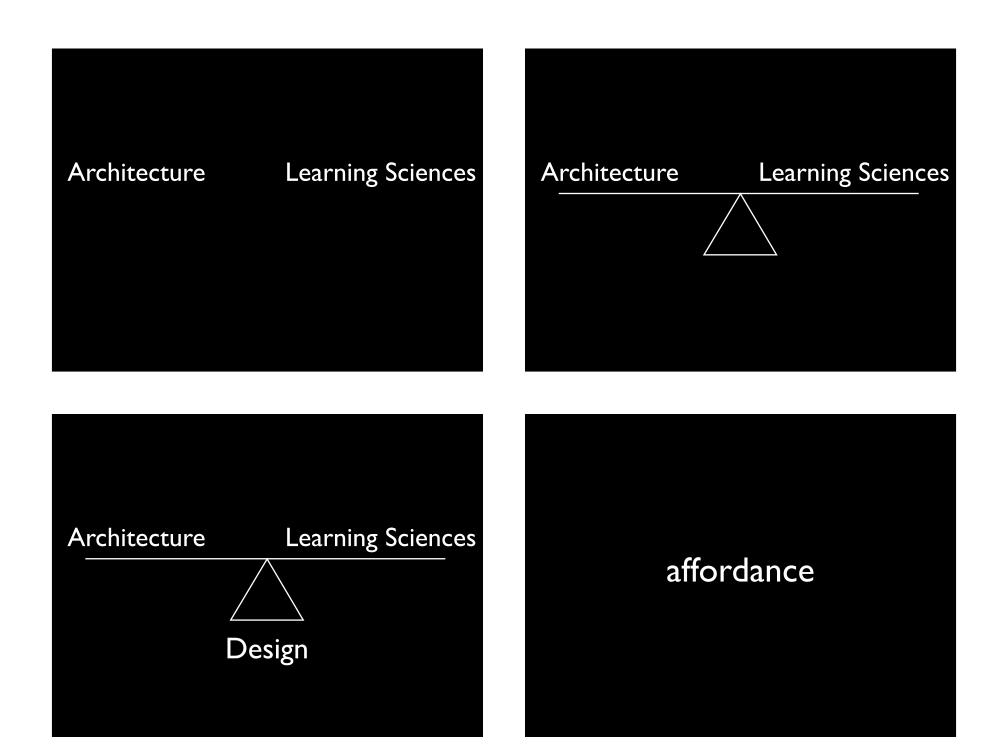
Tech Tally: Approaches to Assessing Technological Literacy (National Academies Press, 2006)







Architecture



affordance





Whiteside, A., Brooks, D. C., & Walker, J. D. (2010). Making the case for space: Three years of empirical research on learning environments. Educause Quarterly, 33(3), 11.

apprenticeship of observation

Lortie, D. C. (1975). School teacher: A sociological inquiry. Chicago: University of Chicago Press.





Kollar, I., Pilz, F., & Fischer, F. (2014). Why it is hard to make use of new learning spaces: a script perspective. *Technology, Pedagogy and Education*, 23(1), 7-18.

Kollar, I., Pilz, F., & Fischer, F. (2014). Why it is hard to make use of new learning spaces: a script perspective. Technology, Pedagogy and Education, 23(1), 7-18.

Design Principle #1:

Learning spaces should have a migrating focal point.

Learning spaces should have a migrating focal point.

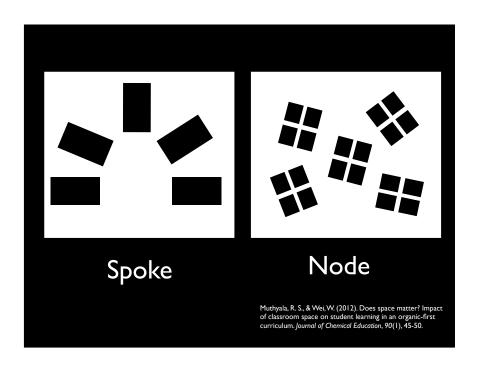
Learning spaces should have a migrating focal point.

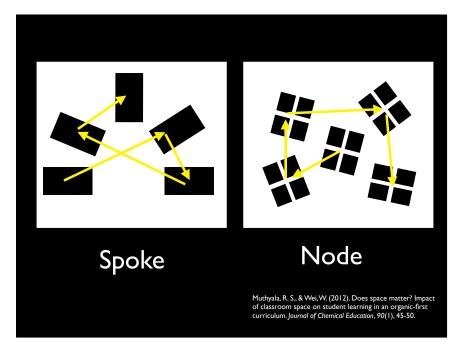
power

Learning spaces should have a migrating focal point.

power

engagement





hack (hak) - verb

- to cut, notch, slice, chop or sever something with heavy irregular blows
- to circumvent security and break into
- to modify or repurpose in a skillful or clever way





Smith, C.V., & Cardaciotto, L. (2012). Is active learning like broccoli? Student perceptions of active learning in large lecture classes. Journal of the Scholarship of Teaching and Learning, 11(1), 53-61.

Learning spaces should:

Design Principles

Learning spaces should:

#1: Have a migrating focal point.

• Shift the attention.

Hack your space!

- Shift the attention.
- Promote multiple voices and sharing of ideas

Hack your space!

- Shift the attention.
- Promote multiple voices and sharing of ideas
- Utilize active/collaborative learning

- Shift the attention.
- Promote multiple voices and sharing of ideas
- Utilize active/collaborative learning
- Be transparent!

Design Principle #2:

Learning spaces should scaffold authentic practice.

Learning spaces should scaffold authentic practice.

Learning spaces should scaffold authentic practice.

activity

Learning spaces should scaffold authentic practice.

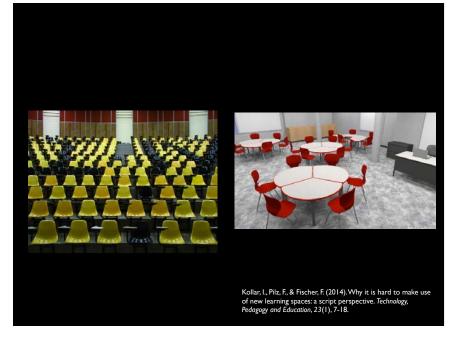
activity

practice









Learning spaces should:

#I: Have a migrating focal point.

Design Principles

Learning spaces should:

#I: Have a migrating focal point.

#2: Scaffold authentic practice.

Hack your space!

Hack your space!

Set up problem based learning activities

- Set up problem based learning activities
- Break it down.

Hack your space!

- Set up problem based learning activities
- Break it down.
- Balance designed and emergent (VVenger, 1998)

Design Principle #3:

Learning spaces should provide for multiple representations.

Learning spaces should provide for multiple representations.

Learning spaces should provide for multiple representations.

process

Learning spaces should provide for multiple representations.

process

products







Learning spaces should:

#1: Have a migrating focal point.

#2: Scaffold authentic practice.

Design Principles

Learning spaces should:

#1: Have a migrating focal point.

#2: Scaffold authentic practice.

#3: Support multiple representations.

• Create residue

Hack your space!

- Create residue
- Consider BYOD

Hack your space!

- Create residue
- Consider BYOD
- Promote student choice

- Create residue
- Consider BYOD
- Promote student choice
- Recognize the connection between participation and reification (Wenger, 1998)

Design Principle #4:

Learning spaces should be task responsive.

Learning spaces should be task responsive.

Learning spaces should be task responsive.

evolution

"We have to be careful not to focus simply on what the technology offers, but rather on what the pedagogy requires."

Diana Laurillard in Technology, Pedagogy, and Education (2007)

Hack your space!

Avoid the urge. Use the space.
 Don't let the space use you.

Hack your space!

- Avoid the urge. Use the space.
 Don't let the space use you.
- Consider pedagogy first!

- Avoid the urge. Use the space.
 Don't let the space use you.
- Consider pedagogy first!
- Communicate with your students.

Design Principles

Learning spaces should:

Design Principles

Learning spaces should:

#1: Have a migrating focal point.

Design Principles

Learning spaces should:

#I: Have a migrating focal point.

#2: Scaffold authentic practice.

Learning spaces should:

#1: Have a migrating focal point.

#2: Scaffold authentic practice.

#3: Support multiple representations.

Design Principles

Learning spaces should:

#I: Have a migrating focal point.

#2: Scaffold authentic practice.

#3: Support multiple representations.

#4: Be task responsive.





So, how do we begin?

So, how do we begin?

Start with one!



Stay in touch.

Ollie Dreon
Millersville University
oliver.dreon@millersville.edu
the8blog.wordpress.com
@ollied

