Blended Learning A to Z:
Myths, Models, and Moments of Magic

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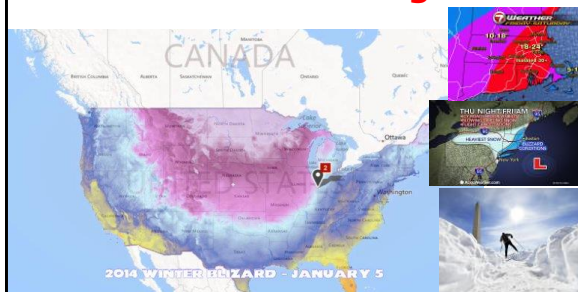http://mypage.iu.edu/~cjbonk
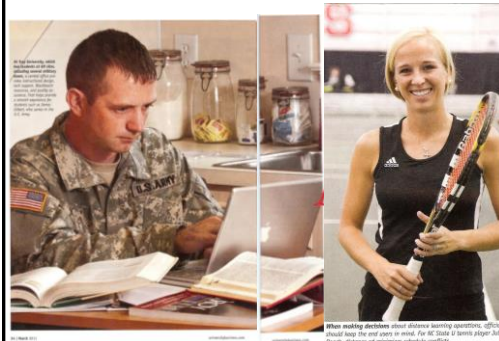

What I will discuss...

1. **Definitions of blended learning**
2. **Myths of blended learning**
3. **Models of blended learning**
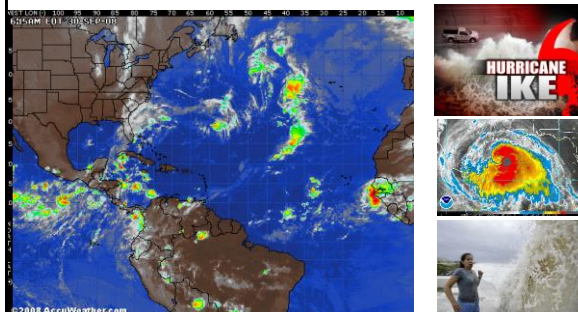4. **Examples of blended learning**

Who Needs Blended and Online Learning?

Those in the Military!
Athletes and Performers

Those in hurricanes
(e.g., Katrina, Ike, etc.)!
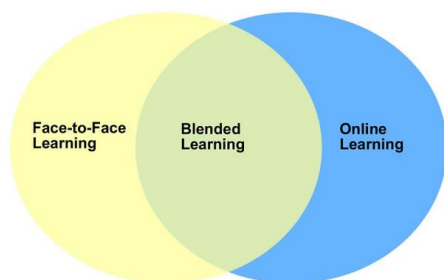

Those effected by volcanos

## Those in earthquakes (e.g., Chile, China, Haiti)...

Those where there are diseases and outbreaks...

Answer: Blended Learning

Face-to-Face Learning — Blended Learning — Online Learning

Myth #1: If you read the enough research you will be able to know the impact of blended learning.

1. Improved Pedagogy
   - More interactive instead of transmissive
   - Authentic, real world, etc.
2. Increased Access/Flexibility
3. Increased Cost Effectiveness
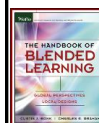
Is K-12 Blended Learning Disruptive
Heather Staker and Michael B. Horn,
Innosight Institute, May 2013
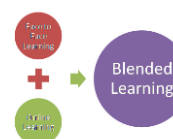http://www.projectred.org/uploads/The-Rise-of-K-12-Blended-Learning.pdf

Myths #2: Blended learning is easy to define.
Myth #3: Blended learning is hard to define.
Blending Online and F2F Instruction

"Blended learning refers to events that combine aspects of online and face-to-face instruction" (Rooney, 2003, p. 26; Ward & LaBranche, 2003, p. 22)
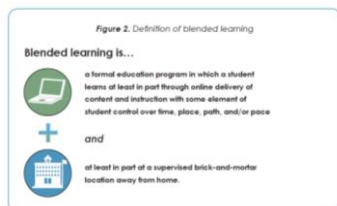
Classifying K-12 Blended Learning
Heather Staker and Michael B. Horn, May 2012
http://www.projectred.org/uploads/The-Rise-of-K-12-Blended-Learning.pdf

"Blended learning is any time a student learns at least in part at a supervised brick-and-mortar location away from home *and at least in* part through online delivery with some element of student control over time, place, path, and/or pace."

Figure 2. Definition of blended learning

Blended learning is...

a formal education program in which a student learns at least in part through online delivery of content and instruction with some element of student control over time, place, path, and/or pace

+ and

at least in part at a supervised brick-and-mortar location away from home.

Classifying K-12 Blended Learning
Heather Staker and Michael B. Horn, May 2012
http://www.projectred.org/uploads/The-Rise-of-K-12-Blended-Learning.pdf

One critical part of the definition of blended learning is that it involves "some element of student control of time, place, path, and/or pace." Digital Learning Now! describes each dimension:

- **Time:** Learning is no longer restricted to the school day or the school year.
- **Place:** Learning is no longer restricted to the walls of the classroom.
- **Path:** Learning is no longer restricted to the pedagogy used by the teacher. Interactive and adaptive software allows students to learn [in a method that is customized to their needs].
- **Pace:** Learning is no longer restricted to the pace of an entire classroom of students.

Source: "Roadmap for Reform,"
http://digitallearningnow.com/wp-content/uploads/2011/10/Roadmap-for-Reform-.pdf

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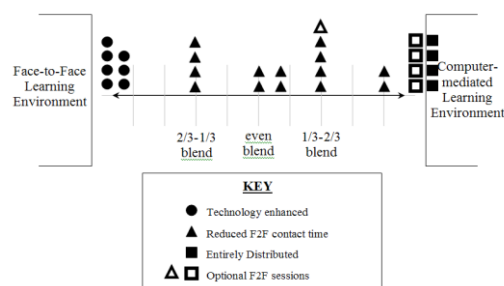## Myth #4: People will know what I am saying when I say "blended learning."
Myth #5: Blended is the same as "hybrid."
The Sloan Consortium

Proportion of content delivered online	Type of Course	Typical Description
0%	Traditional	Course with no online technology used - content is delivered in writing or orally.
1 to 29%	Web facilitated	Course which uses web-based technology to facilitate what is essentially a face-to-face course. Might use Blackboard or WebCT to post the syllabus and assignments, for example.
30 to 79%	Blended/Hybrid	Course that is a blend of the online and face-to-face course. Substantial proportion of the content is delivered online, typically uses online discussions, typically has some face-to-face meetings
80+%	Online	A course where the vast bulk of the content is delivered online. Typically has no face-to-face meetings.

Myth #6: Knowing "how much" to blend is vital.
Range of Blends in Pew Cases

Face-to-Face Learning Environment — Computer-mediated Learning Environment

2/3-1/3 blend | even blend | 1/3-2/3 blend

KEY
- ● Technology enhanced
- ▲ Reduced F2F contact time
- ■ Entirely Distributed
- △□ Optional F2F sessions

Source: Graham, C. R., & Allen, S. (2005). Blended learning: An emerging trend in education. In C. Howard & J. V. Boettecher & L. Justice & K. D. Schenk & P. L. Rogers & G. A. Berg (Eds.), *Encyclopedia of Distance Learning* (pp. 172-179). Hershey, PA: Idea Group Inc.

Myth #7: Blended learning works everywhere.
Where is Blended Beneficial?

- **Intro Classes (Spanish, psych, algebra, biology)**
- **AP Classes**
- **Classes with low success rates**
- **Classes with students working part-time**
- **Required classes**
- **Students are rural or spread over a distance**
- **Classes with certification or standardization**
- **Classes with new requirements or standards**
- **Writing intensive classes, theory classes, etc.**
- **Lab classes?**

Examples of Blended Learning

- **Put assessments/reviews online**
- **Online discussions**
- **Online labs**
- **Put reference materials on Web**
- **Deliver pre-work online**
- **Provide office hours online**
- **Use mentoring/coaching tool**
- **Access experts live online**

Myth #8: People learn more in face-to-face settings than blended or fully online ones.
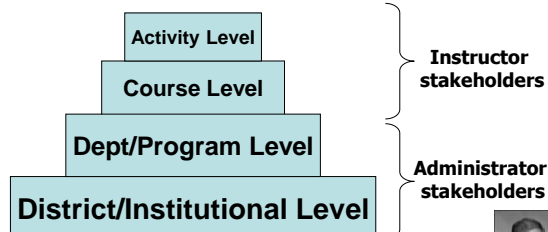**Fully Online and Blended Learning Advantages**

1. **Increased Learning (better papers, higher scores)**
2. **More effective pedagogy and interaction**
3. **Course access at one's convenience and flexible completion (e.g., multiple ways to meet course objectives)**
4. **Reduction in physical class or space needs, commuting, parking, etc.**
5. **Increased opportunities for human interaction, communication, & contact among students**
6. **Introverts participate more**

Myth #9: Instructors can have a logical discussion with administrators about blended learning.
Models of Blending
Blending occurs at the following four levels:

Activity Level
Course Level — Instructor stakeholders
Dept/Program Level
District/Institutional Level — Administrator stakeholders

Myth #10: There is a best model of blended.
AMA Special Report, Effectively Implementing a Blended Learning Approach
(Steven Shaw & Nicholas Igneri, 2006)

Source: American Management Association, AMA at Work

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10 Blended Learning Models
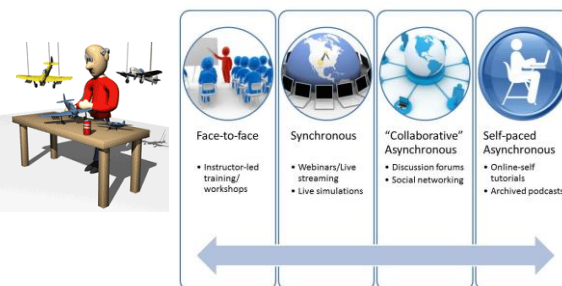
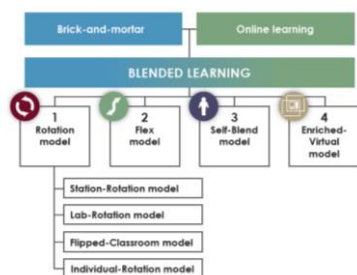| Face-to-face	Synchronous	"Collaborative" Asynchronous	Self-paced Asynchronous
• Instructor-led training/ workshops	• Webinars/Live streaming • Live simulations	• Discussion forums • Social networking	• Online-self tutorials • Archived podcasts

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Classifying K-12 Blended Learning
Heather Staker and Michael B. Horn, May 2012
http://www.innosightinstitute.org/innosight/wp-content/uploads/2012/05/Classifying-K-12-blended-learning2.pdf


Figure 1. Blended-learning taxonomy

Brick-and-mortar | Online learning
BLENDED LEARNING
1 Rotation model | 2 Flex model | 3 Self-Blend model | 4 Enriched-Virtual model

Station-Rotation model
Lab-Rotation model
Flipped-Classroom model
Individual-Rotation model

Blended Model #1.
Face-to-Face Primary
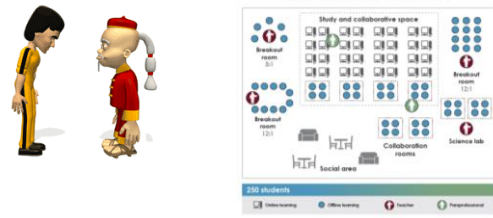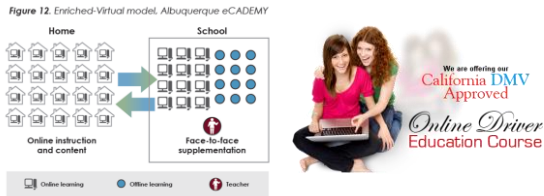**(online is for remediation of supplement)**

Blended Model #2. Rotation
(students alternate FTF and Online instruction)
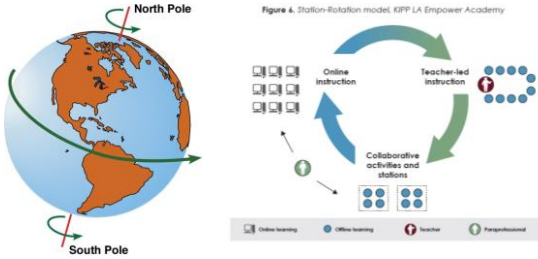
Blended Model #3. Flex
## (curriculum primarily online with instructors available FTF)

Online Driver (now: "Enriched Virtual Model") (courses primarily online and physical facilities used to supplement or as needed)

Blended Model #4. Online Lab
(lab or field experience component of course is online)

Blended Model #5. Self-Blend
(students decide on which courses they take online or which portion of the course is online)
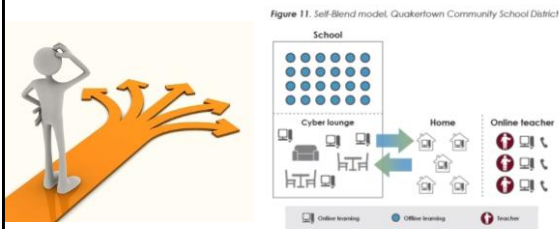
Blended Model #6. Bookend
(first and last part of the course is online and middle portion is FTF; AMA Special Report, Blended Learning Opportunities, Alison Rossett (2006))

Blended Model #7. Anchor
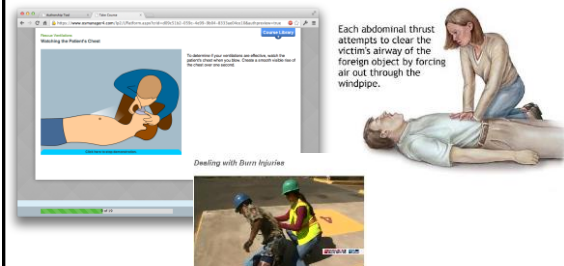**(start with FTF or what students are familiar with and then move to online)**

20 Blended Learning Examples
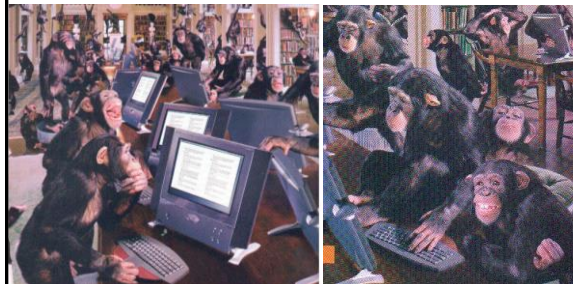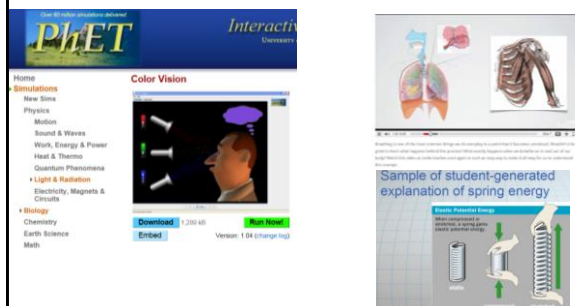

Blended Solution #1.
Concept Animations
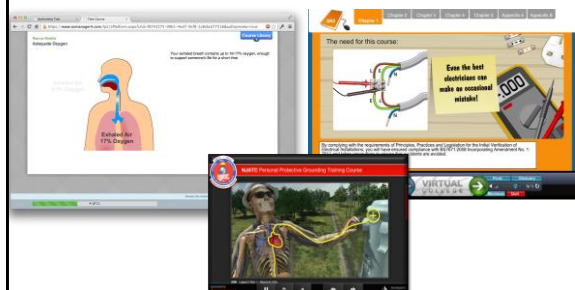
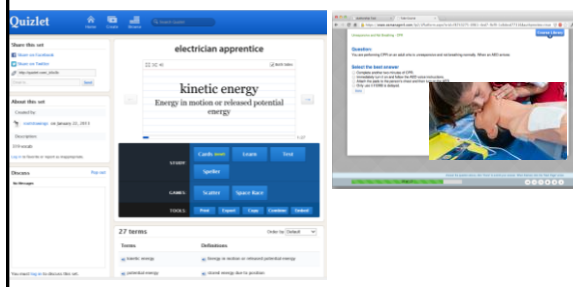**Blended Solution #2.**
Anchor Learning in Concept Demonstrations

Blended Solution #3.
Interactive Labs and Simulations
http://phet.colorado.edu/en/simulation/energy-skate-park

Blended Solution #4.
Online Practice Tests
http://quizlet.com/

Blended Solution #5.
Reading from Open Access Journals
(e.g., PLOS and SciVee)
http://www.plos.org/
http://www.scivee.tv/ (Making science visual)

Blended Solution #6.
Screencasts and Tutorials
(Jing, GoView, Screenr)

Blended Solution #7.
Bi-Weekly Guest Experts
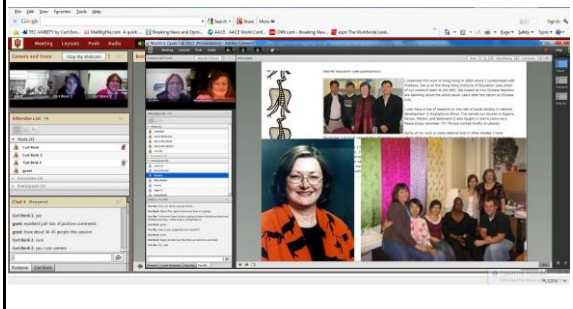
Blended Solution #8.
Online Database Activities
(e.g., WolframAlpha)
http://www.wolframalpha.com/

Blended Solution #9.
Online Anatomy and Biology
http://www.cyber-anatomy.com/
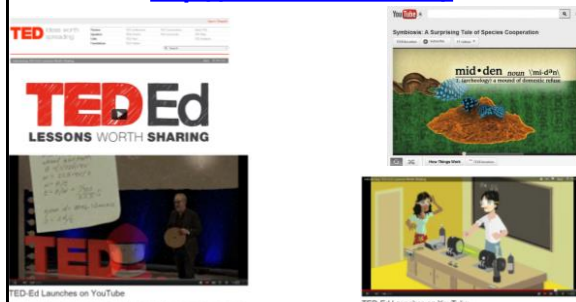http://www.cyberscience3d.com/index.php

Blended Solution #10.
Concept Mapping and Timeline Tools
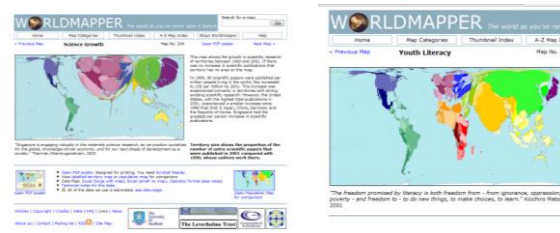**(VUE, Bubbl.us, Cmap, Freemind, Gliffy, Mindmeister, or Mindomo)**

Blended Solution #11.
Educational Videos: TED-Ed
http://education.ted.com/

Blended Solution #12.
Visualizing Data
(e.g., the World Mapper)
http://www.worldmapper.org/

Blended Solution #13.
Flip the Classroom
Lacking Teachers and Textbooks, India's Schools
Turn to Khan Academy to Survive, NY Times,
Anupama Chandrasekaran
http://india.blogs.nytimes.com/2012/10/15/lacking-teachers-and-textbooks-indias-schools-turn-to-khan-academy-to-survive/

The New York Times | International Herald Tribune

Students at Sree Karpagavalli Vidhyalaya school
in Chennai, Tamil Nadu, watching Khan Academy
math videos.

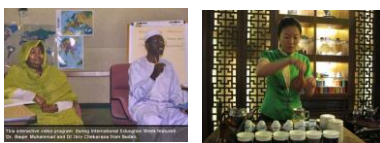**Blended Solution #14.**
Virtual Mentor Teachers
(e.g., The Granny Cloud)
(Build a School in the Cloud; Self-Organized
Learning Environments (SOLEs), February 2013,
TED Talk from Sugata Mitra
http://www.ted.com/talks/sugata_mitra_build_a_school_in_the_cloud.html

Blended Solution #15.
Expert Presentations with Audience Questioning and Commenting

The guest expert makes a formal or
semi-formal presentation of ideas,
activities, cultural norms and
practices, or research to the class.

Blended Solution #16.
BookTV on C-Span2
(author interviews)

Blended Solution #17.
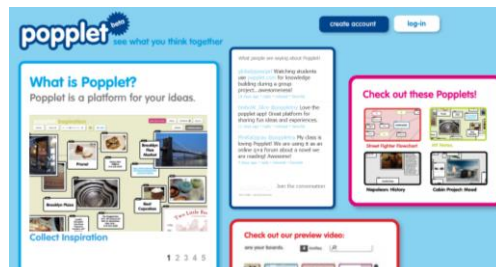**Videoconferencing (first demo in 1964 at the World's Fair; use increased in 2003)**
Tablets Rock On: Education Tech Through The Ages, Information Week, February 26, 2013
http://www.informationweek.com/education/instructional-it/blended-learning-improves-test-scores-st/240155940

Blended Solution #18.
Student Collaborative Knowledge Building and Sharing
(e.g., Popplet: http://popplet.com/

Blended Solution #19.
Human Embryology Animations
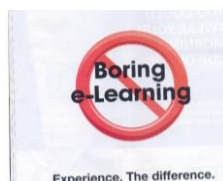**(Valerie O'Loughlin, Indiana University)**
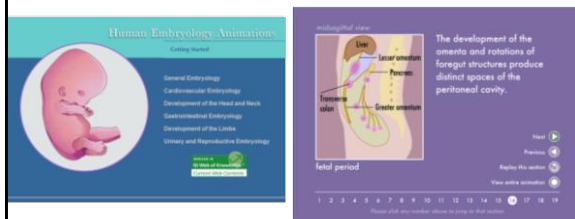
Blended Solution #20.
Workplace Internship, Practicum, and Field Reflections

Again, this talk covered…

1. 1 Definition of blended learning
2. 10 Myths of blended learning
3. 7 Models of blended learning
4. 20 Examples of blended learning

Any Questions?

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🙂 **Papers: PublicationShare.com**
🙂 **Book: http://worldisopen.com/**
    Email: curt@worldisopen.com