

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

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August 12, 2013 Blended Learning Improves Test Scores, Information Week

<http://www.youtube.com/watch?v=03pajh0jw>
<http://www.carnegielearning.com/>
<http://carnegelearning.iakob.net/algebra-effectiveness/study/>

Who needs blended Learning?

Going the Distance

Campus leaders are deciding whether to centralize or decentralize distance education operations, with some even choosing both.

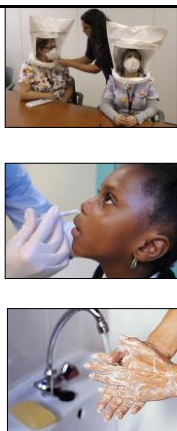
By Richard Milrod

A DISTANCE EDUCATION PROGRAM can be a source of revenue, a source of innovation, a source of access to a specialized education, or a source of a specialized education. It can be a source of a specialized education, or a source of a specialized education. It can be a source of a specialized education, or a source of a specialized education. It can be a source of a specialized education, or a source of a specialized education.

Who Needs Blended and Online Learning?

2014 WINTER WIZARD - JANUARY 5

Those where there are diseases and outbreaks...



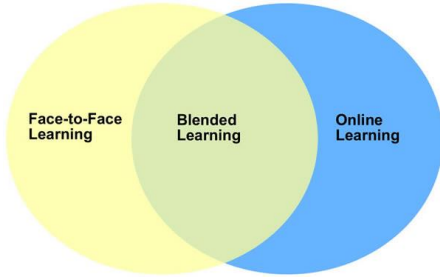
Question: How to Meet Core Knowledge Objectives?

MEDIC First Aid BasicPlus (2013)

Core Knowledge Objectives

1. Describe how to recognize and provide first aid care for a person with a general medical illness.
2. Describe how to recognize and provide first aid care for a stroke.
3. Describe how to recognize and provide first aid care for a heart attack.
4. Describe how to recognize and provide first aid care for a person with a seizure.
5. Describe how to recognize and provide first aid care for a person with a low-back injury.
6. Describe how to recognize and provide first aid care for a person with a neck injury.
7. Describe how to recognize and provide first aid care for a person with a head injury.
8. Describe how to recognize and provide first aid care for a person with a spinal cord injury.
9. Describe how to recognize and provide first aid care for a person with a chest injury.
10. Describe how to recognize and provide first aid care for a person with a respiratory emergency.
11. Describe how to recognize and provide first aid care for a person with a poisoning emergency.
12. Describe how to recognize and provide first aid care for a person with a burn.
13. Describe how to recognize and provide first aid care for a person with a frostbite.
14. Describe how to recognize and provide first aid care for a person with a hypothermia.
15. Describe how to recognize and provide first aid care for a person with a heatstroke.
16. Describe how to recognize and provide first aid care for a person with a dehydration.
17. Describe how to recognize and provide first aid care for a person with an allergic reaction.
18. Describe how to recognize and provide first aid care for a person with an anaphylaxis.
19. Describe how to recognize and provide first aid care for a person with a meningitis.
20. Describe how to recognize and provide first aid care for a person with a tuberculosis.

Answer: Blended Learning



What I will discuss...

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



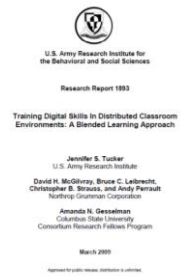
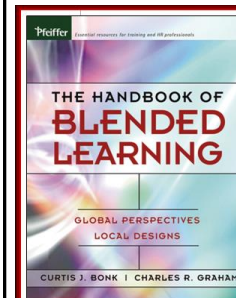
Myth #1: If you read the enough research you will be able to know the impact of blended learning.

1. **Improved Pedagogy**
 - More interactive instead of transmissive
 - Authentic, real world, etc.
2. **Increased Access/Flexibility**
3. **Increased Cost Effectiveness**



Recent Reports on Blended

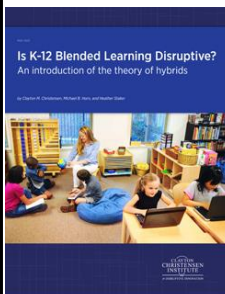
The Handbook of Blended Learning: Global Perspectives, Local Designs (Bonk & Graham)
<http://www.dtic.mil/cgi-bin/GetTRDoc?Location=U2&doc=GetTRDoc.pdf&AD=ADA495731>



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>

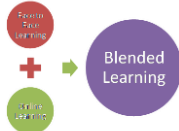


Blended Learning Defined and Explained



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

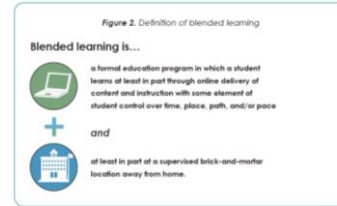
"Blended learning refers to events that combine aspects of online and face-to-face instruction" (Rooney, 2003, p. 26; Ward & LaBranche, 2003, p. 22)



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."



Classifying K-12 Blended Learning
 Heather Staker and Michael B. Horn, May 2012

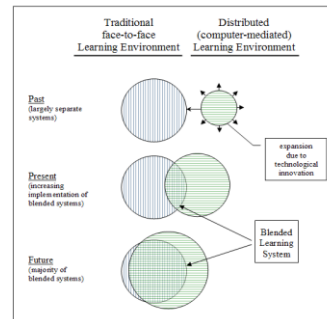
<http://www.projectred.org/uploads/The-Rise-of-K-12-Blended-Learning.pdf>

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://digitalearningnow.com/wp-content/uploads/2011/10/Roadmap-for-Reform.pdf>

Historical Emergence of Blended (Graham, 2006)

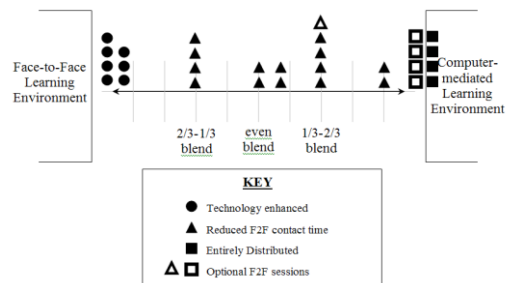


Myth #4: People will know what I am saying when I say "blended learning."
Myth #5: Blended is the same as "hybrid."
The Sloan Consortium

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



Source: Graham, C. R., & Allen, S. (2005). Blended learning: An emerging trend in education. In C. Howard & J. V. Boettcher & 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

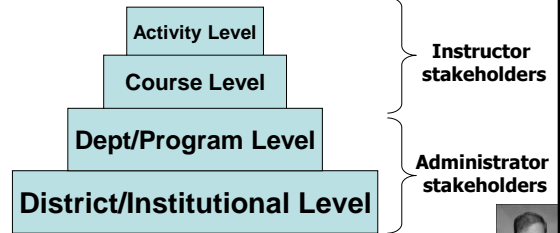
1. Increased Learning (better papers, higher scores)
2. More effective pedagogy and interaction
3. Course access at one's convenience and flexible completion (e.g., multiple ways to meet course objectives)
4. Reduction in physical class or space needs, commuting, parking, etc.
5. Increased opportunities 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:

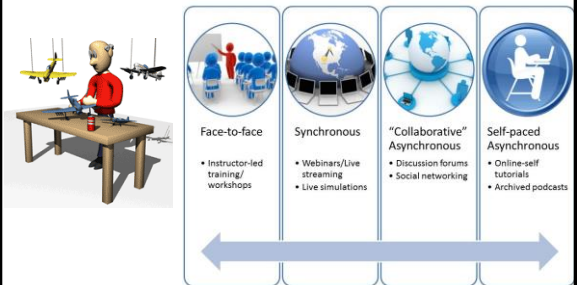


Myth #10: There is a best model of blended.
AMA Special Report, Effectively Implementing a Blended Learning Approach
 (Steven Shaw & Nicholas Ignéri, 2006)



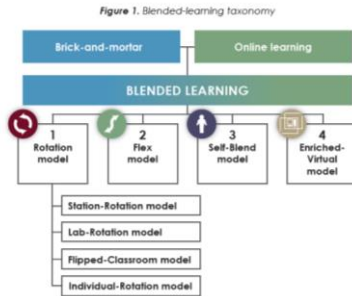
Source: American Management Association, AMA at Work.

10 Blended Learning Models



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>



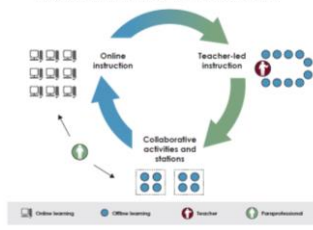
Blended Model #1. Face-to-Face Primary
 (online is for remediation of supplement)



Blended Model #2. Rotation
 (students alternate FTF and Online instruction)



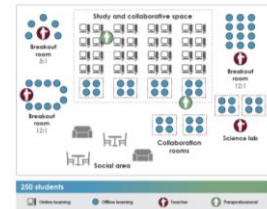
Figure 4. Station-Rotation model, KIPP LA Empower Academy



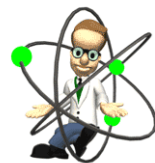
Blended Model #3. Flex
 (curriculum primarily online with instructors available FTF)



Figure 10. Flex model, San Francisco Flex Academy

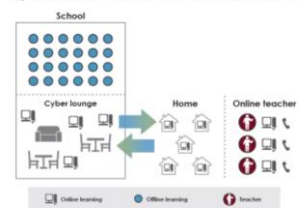


Blended Model #4. Online Lab
 (lab or field experience component of course is online)



Blended Model #5. Self-Blend
 (students decide on which courses they take online or which portion of the course is online)

Figure 11. Self-Blend model, Quakertown Community School District

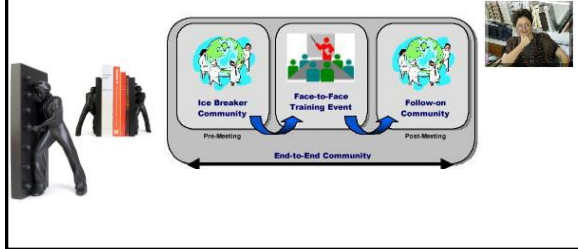


Blended Model #6. Online Driver (now: "Enriched Virtual Model") (courses primarily online and physical facilities used to supplement or as needed)

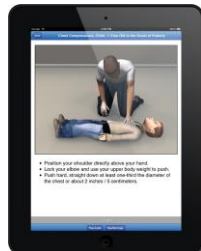
Figure 12. Enriched-Virtual model. Albuquerque eCADEMY



Blended Model #7. 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 #8. Anchor (start with FTF or what students are familiar with and then move to online)



Blended Model #9. Field (combine FTF and online as needed...mix and match)

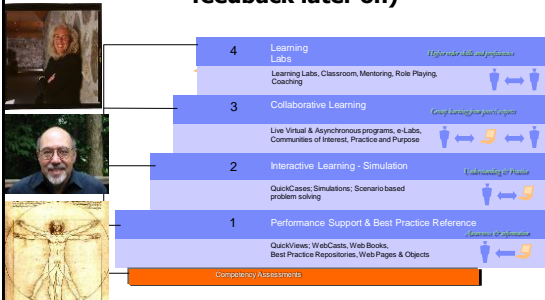
Table 1. What Might Go in the Blend

Live face-to-face (formal)	Live face-to-face (informal)
<ul style="list-style-type: none"> Instructor-led classroom (F2F) Workshops Coaching, mentoring On-the-job (OTJ) training Work-based problems 	<ul style="list-style-type: none"> Collegial relationships Work teams Apprenticeships

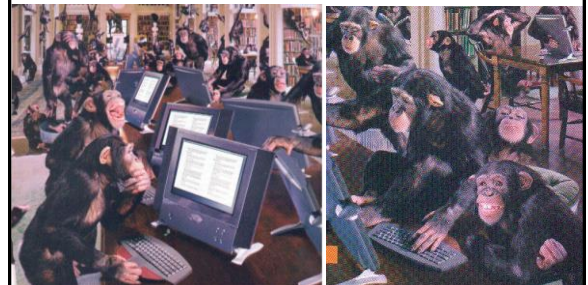
BLENDED LEARNING
This unique approach includes instructor-led hands-on training, lectures, eLearning and web based evaluation and instruction.

LEARN MORE ABOUT BLENDED LEARNING

Blended Model #10. Degrees of Humanness (rely on computer-based feedback and interaction at first and switch to human feedback later on)



Part II: 34 Blended Learning Examples



Blended Solution #1. Scenario and Case-based Learning (Franklin University, cost and forensic accounting course)

<http://video.franklin.edu/Franklin/acct/managerialAccounting/cost-behavior-player.html>
<http://video.franklin.edu/Franklin/acct/342/common/fraudScenario02.html>
<http://www.youtube.com/watch?v=c3most5UgQ8&list=TLyymmALKW1TI>

Cost Behavior

Variable Cost
 Direct material cost
 wages paid to the workers
 fuel used by a trucking company
 shipping materials to the project

Fixed Cost
 advertising costs
 property insurance
 depreciation on real estate
 security guard

Blended Solution #2. Concept Animations

Blended Solution #2 content includes a respiratory system diagram with the text 'Exhale for 17% Oxygen', a calculator with the text 'Even the best calculators can make an occasional mistake', and a human skeleton with the text 'NARE Personal Protective Clothing Training Center'.

Blended Solution #3. Concept Demonstrations

Blended Solution #3 content includes a video player showing a CPR demonstration and a photograph of a person performing CPR on another person. The text reads: 'Each abdominal thrust attempts to clear the victim's airway of the foreign object by forcing air out through the windpipe.'

Blended Solution #4. Online Labs and Simulations

<http://www.biheartinstitute.org/patient-resources.php>

Blended Solution #4 content includes a 3D anatomical model of a human torso showing the heart and lungs, with a heart rate monitor overlay. The text reads: 'ANIMATION WILL GO HERE' and 'SCROLLING PROCEDURES HERE'.

Blended Solution #5. Interactive Simulations

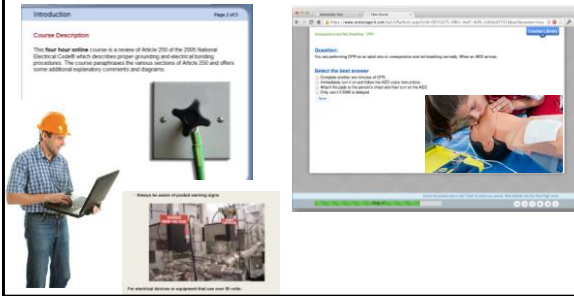
<http://phet.colorado.edu/en/simulation/energy-skate-park>

Blended Solution #5 content includes a screenshot of the PhET website showing the 'Energy Skate Park' simulation interface. The text reads: 'PhET Interactive Simulations' and 'Sample of student-generated explanation of spring energy'.

Blended Solution #6. Images of Terms and Concepts

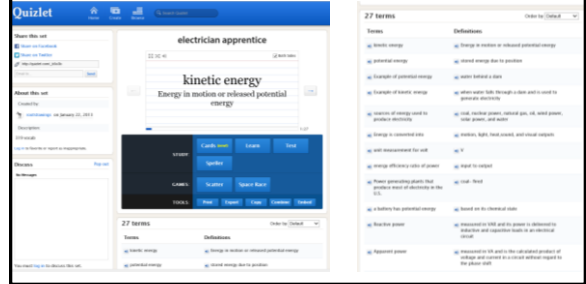
Blended Solution #6 content includes a screenshot of a video player showing a close-up of a burn on a person's arm. The text reads: 'Minor Burn Care' and 'Cool the burn with cool water or room temperature. Continue cooling until the pain is relieved. This will reduce pain, swelling, and the depth of injury. Do not apply ice directly to cool a burn. Loosen any clothes near the burn with a loose elastic band.'

Blended Solution #7. Online Practice Tests



Blended Solution #8. Online Quizzes

<http://quizlet.com/>



Blended Solution #9. Screencasts and Tutorials

(Jing, GoView, Screen)



Blended Solution #10. Explore Online Resources

(Commonwealth of Learning, March 2013)

http://www.col.org/news/Connections/2013Mar/Documents/Connections_March2013.pdf

ONLINE COURSE DEVELOPMENT FOR TEACHER EDUCATION IN JAMAICA



Blended Solution #11. Decision-Making Scenarios

(e.g., Articulate Storyline)

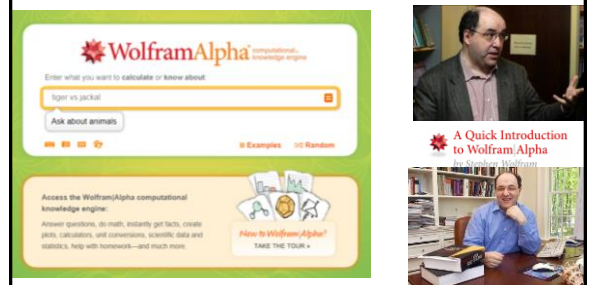
http://articulate.demos.s3.amazonaws.com/broken_co-worker/story.html



Blended Solution #12. Online Database Activities

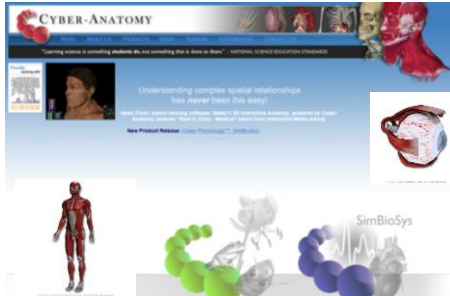
(e.g., WolframAlpha)

<http://www.wolframalpha.com/>



Blended Solution #13. Online Anatomy and Biology

<http://www.cyber-anatomy.com/>



Blended Solution #14. Online Reflection Activities (Big Questions Online (BQO)), January 8, 2013 (e.g., Do We Have Souls?)

<https://www.bigquestionsonline.com/content/do-we-have-souls>



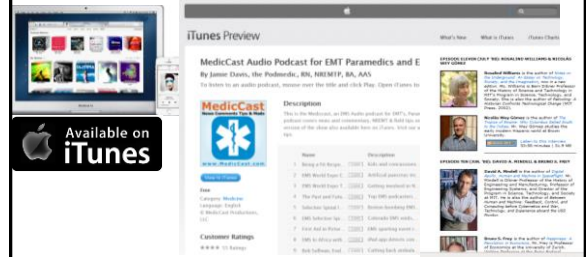
Blended Solution #15. Electronics News Blog Readings and Reflections

<http://www.hsi.com/blog>
<http://www.electronics-lab.com/blog/>



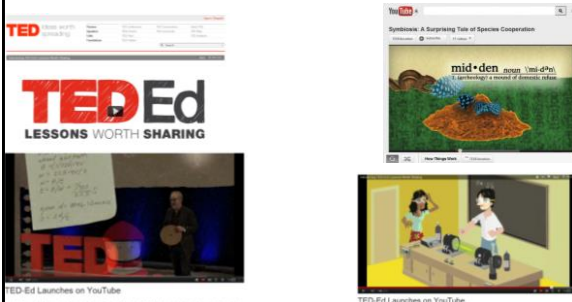
Blended Solution #16. Podcast Show Reflections

<http://www.firstaidshow.com/>
<https://itunes.apple.com/us/podcast/first-aid-instructor-training-first/id386403709>



Blended Solution #17. Educational Videos: TED-Ed

<http://education.ted.com/>

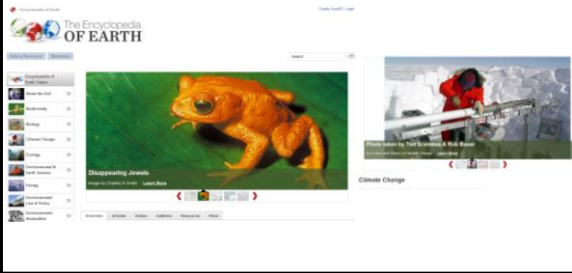


Blended Solution #18. Online Role Play or Debate



Blended Solution #19. Using Online Encyclopedias (e.g, the Encyclopedia of Earth:

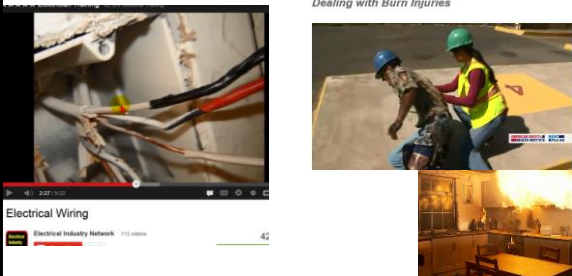
<http://www.eoearth.org/>)
http://en.wikipedia.org/wiki/Encyclopedia_of_Earth



Blended Solution #20. Expert Videoconferencing



Blended Solution #21. Anchor Course Concepts and Activities in Brief Shared Online Videos



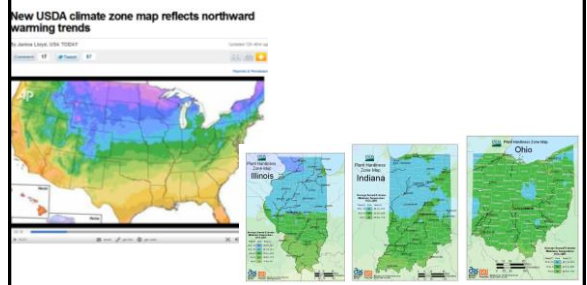
Blended Solution #22. Mobile Apps for the other training and resources



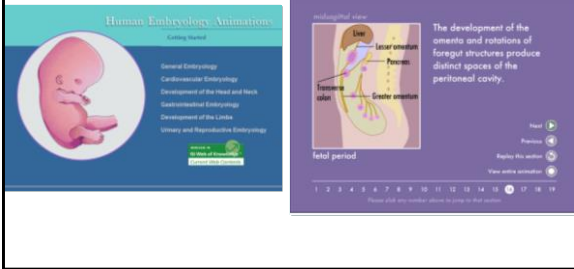
Blended Solution #23. Reflections on Interactive Maps Mapping the Dead: Gun Deaths Since Sandy Hook, Huffington Post, March 22, 2013



Blended Solution #24. Comparison and Contrast Maps (e.g., New USDA climate zone map reflects northward warming trends, By Janice Lloyd, USA TODAY, January 26, 2012)



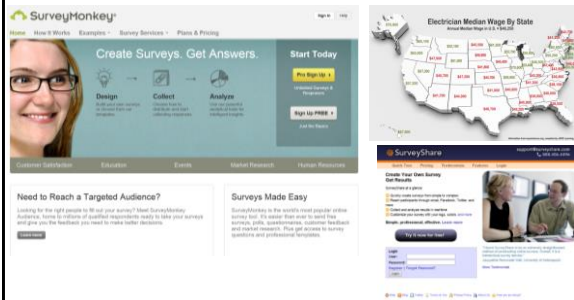
Blended Solution #25. Human Embryology Animations (Valerie O'Loughlin, Indiana University)



Blended Solution #26. Concept Mapping and Timeline Tools (VUE, Bubbl.us, Cmap, Freemind, Glify, Mindmeister, or Mindomo)



Blended Solution #27. Survey Research and Market Analysis (e.g., SurveyShare, Zoomerang, SurveyMonkey)



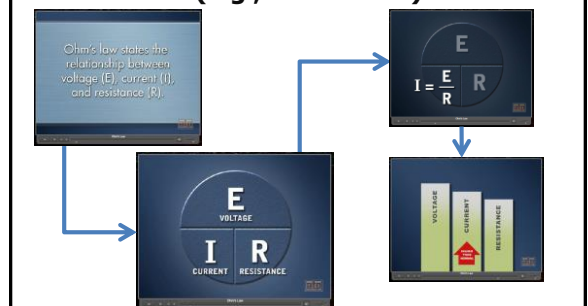
Blended Solution #28. Student Collaborative Knowledge Building and Sharing (e.g., Popplet: <http://popplet.com/>)



Blended Solution #29. Workplace Internship, Practicum, and Field Reflections



Blended Solution #30. Short Video Animations and Reflections (e.g., Ohm's Law)



Blended Solution #31. Video Course Intros

<http://www.youtube.com/watch?v=jWOUygnKLO>



Blended Solution #32. Reading from Open Access Journals (e.g., PLOS)

<http://www.plos.org/>
<http://www.plosbiology.org/>
<http://www.plosgenetics.org/>



Blended Solution #33. Twitter Fed Class Discussions



Blended Solution #34. Online Crossword Puzzles (e.g., <http://www.eclipsecrossword.com/>)

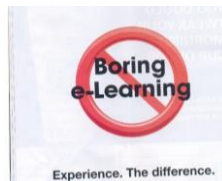
Create Online Crossword Puzzles!



<http://www.eclipsecrossword.com/>

Again, this talk covered...

1. 1 Definition of blended learning
2. 10 Myths of blended learning
3. 10 Models of blended learning
4. 34 Examples of blended learning



Any Questions?



Slides at: TrainingShare.com
Papers: PublicationShare.com
Book: <http://worldisopen.com/>
Email: curt@worldisopen.com

