

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

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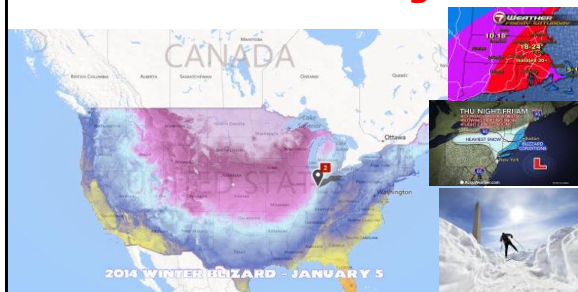


## What I will discuss...

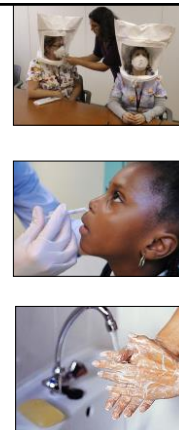
1. Definitions of blended learning
2. Myths of blended learning
3. Models of blended learning
4. Examples of blended learning



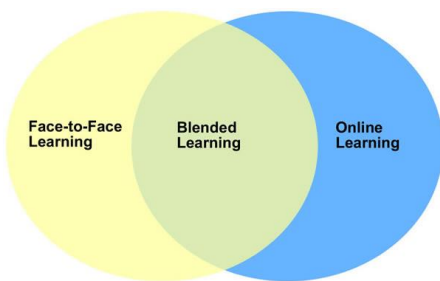
## Who Needs Blended and Online Learning?



Those where there  
are diseases and  
outbreaks...



## Answer: Blended Learning



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

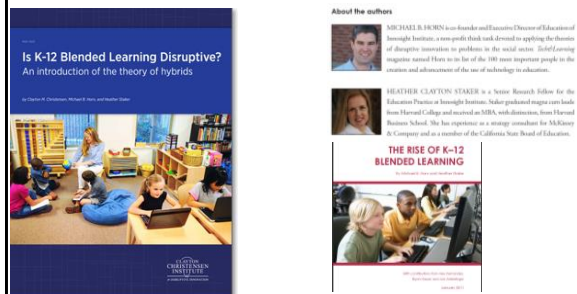
1. Improved Pedagogy
  - More interactive instead of transmissive
  - Authentic, real world, etc.
2. Increased Access/Flexibility
3. Increased Cost Effectiveness



## 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>

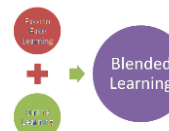


**Myths #2: Blended learning is easy to define.**

**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)**

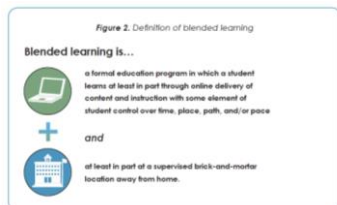


## Classifying K-12 Blended Learning

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."**



## Classifying K-12 Blended Learning

Heather Staker and Michael B. Horn, May 2012

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

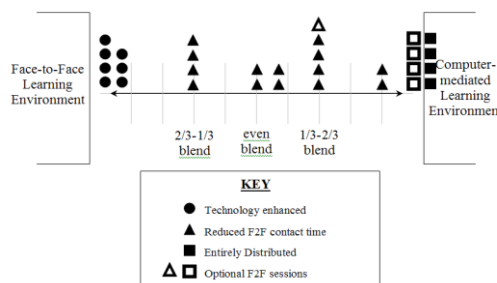
**Myth #4: People will know what I am saying when I say "blended learning."**

**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**

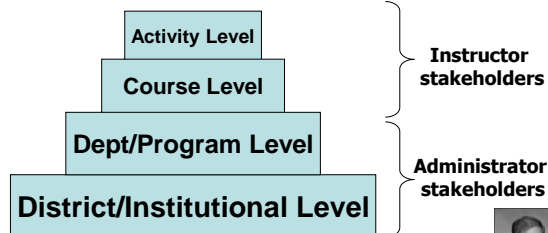
1. Increased Learning (better papers, higher scores)
2. More effective pedagogy and interaction
3. Course access at one's convenience and flexible completion (e.g., multiple ways to meet course objectives)
4. Reduction in physical class or space needs, commuting, parking, etc.
5. Increased opportunities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

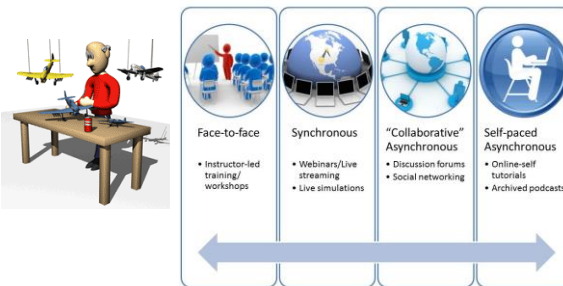


**Myth #10: There is a best model of blended.**  
**AMA Special Report, Effectively Implementing a Blended Learning Approach**  
**(Steven Shaw & Nicholas Ignieri, 2006)**



Source: American Management Association, AMA at Work.

**10 Blended Learning Models**

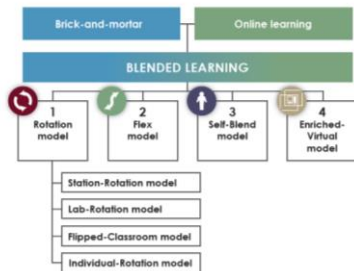


## Classifying K-12 Blended Learning

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<http://www.innosightinstitute.org/innosight/wp-content/uploads/2012/05/Classifying-K-12-blended-learning2.pdf>

Figure 1. Blended-learning taxonomy



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



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

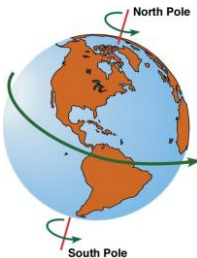
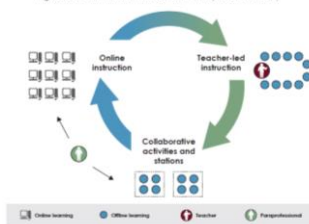


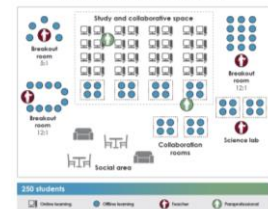
Figure 4. Station-Rotation model, KIPP LA Empower Academy



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

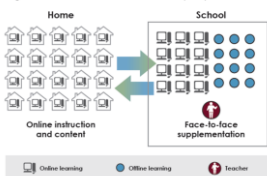


Figure 16. Flex model, San Francisco Flex Academy

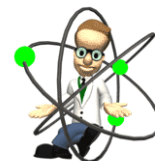


## Online Driver (now: "Enriched Virtual Model") (courses primarily online and physical facilities used to supplement or as needed)

Figure 12. Enriched-Virtual model, Albuquerque eCADEMY

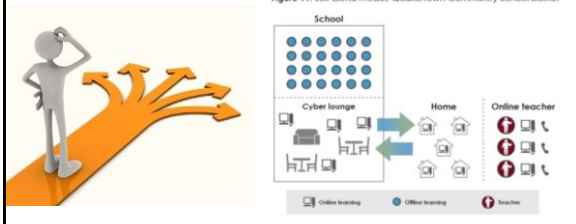


## Blended Model #4. Online Lab (lab or field experience component of course is online)



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

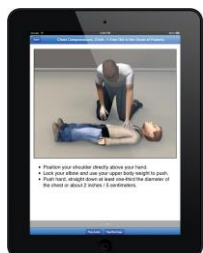
Figure 11. Self-blend model. Quakerstown Community School District



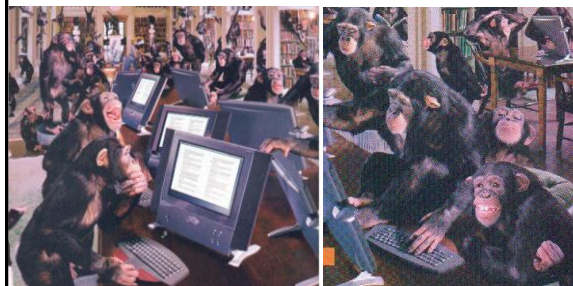
### Blended Model #6. Bookend (first and last part of the course is online and middle portion is FTF; AMA Special Report, Blended Learning Opportunities, Alison Rossett (2006))



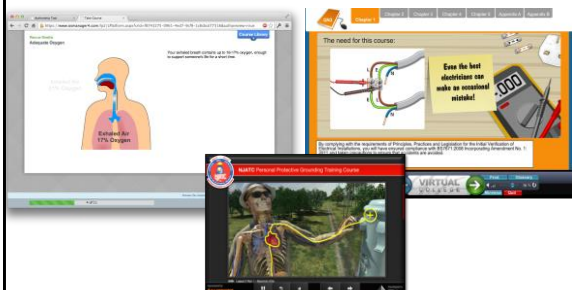
### Blended Model #7. Anchor (start with FTF or what students are familiar with and then move to online)



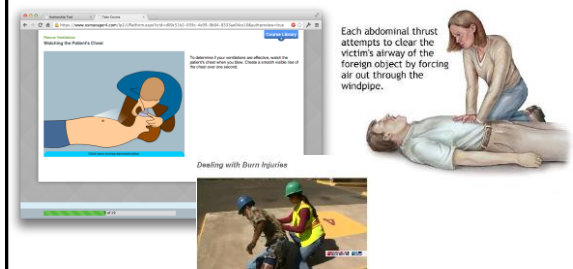
### 24 Blended Learning Examples



### Blended Solution #1. Concept Animations



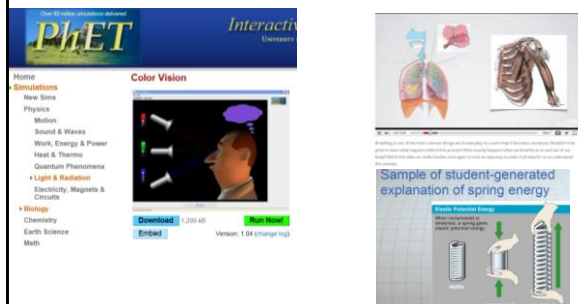
### Blended Solution #2. Anchor Learning in Concept Demonstrations





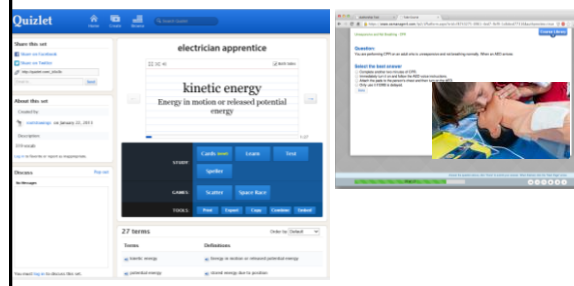
### Blended Solution #3. Interactive Labs and Simulations

<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)

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



### Blended Solution #6. Screencasts and Tutorials

(Jing, GoView, Screenr)



### Blended Solution #7. Explore Online Resources (Commonwealth of Learning, March 2013)

[http://www.col.org/news/Connections/2013Mar/Documents/Connections\\_March2013.pdf](http://www.col.org/news/Connections/2013Mar/Documents/Connections_March2013.pdf)

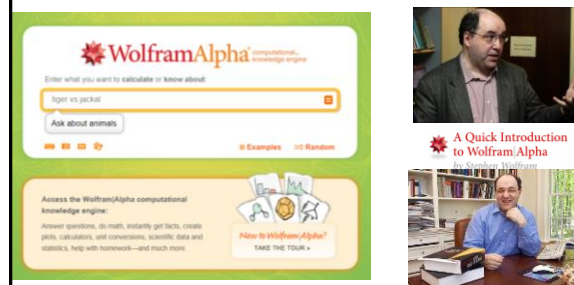
ONLINE COURSE DEVELOPMENT FOR TEACHER EDUCATION IN JAMAICA



### 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/>



## 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.

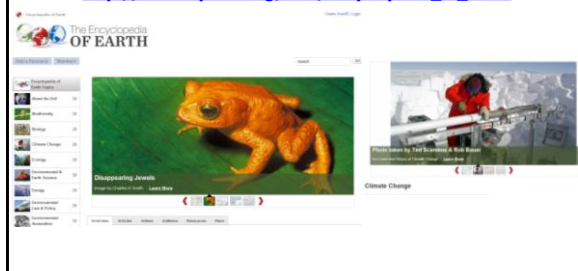
**Online Role Play or Debate**



## Blended Solution #13. Using Online Encyclopedias

(e.g, the Encyclopedia of Earth:  
<http://www.eoearth.org/>)

[http://en.wikipedia.org/wiki/Encyclopedia\\_of\\_Earth](http://en.wikipedia.org/wiki/Encyclopedia_of_Earth)



## Blended Solution #14.

**Expert Videoconferencing**

February 22, 2013

NASA's spacey Google+ Hangout shows off zero-G antics – and cats!

<http://cometdig.nasnews.com/news/2013/02/22/1705788/nasa-spacey-google-hangout-shows-off-zero-g-antics-and-cats/>



### Blended Solution #15. Flip the Classroom

Lacking Teachers and Textbooks, India's Schools  
Turn to Khan Academy to Survive, NY Times,  
Anupama Chandrasekaran

<http://online.blogs.nytimes.com/2012/05/02/lacking-teachers-and-textbooks-indian-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 #16. 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](http://www.ted.com/talks/sugata_mitra_build_a_school_in_the_cloud.html)



### Blended Solution #17. 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 #18. Expert Demonstrations and Audience Questioning

The guest expert demonstrates a certain technique, idea, principle, etc., while the learners observe and ask follow-up questions.



### Blended Solution #19. Question and Answer Sessions

The guest expert responds to questions posed by the audience based on a particular topic (the audience might read or watch ahead of time).



### Blended Solution #20. Expert Cultural Sessions

The guest might conduct a short presentation of some aspect of their culture followed by questions from the class.



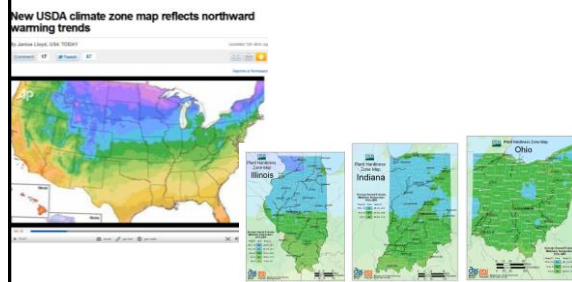


## Blended Solution #21. Student Collaborative Knowledge Building and Sharing (e.g., Popplet: <http://popplet.com/>)



## Blended Solution #22. Comparison and Contrast Maps

(e.g., New USDA climate zone map reflects northward warming trends,  
By Janice Lloyd, USA TODAY, January 26, 2012)  
<http://www.usatoday.com/news/nation/environment/story/2012-01-26/USDA-climate-zone-map/52787142/1>



## Blended Solution #23. Human Embryology Animations (Valerie O'Loughlin, Indiana University)

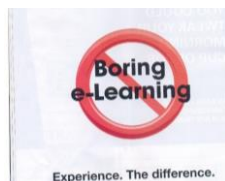


## Blended Solution #24. Workplace Internship, Practicum, and Field Reflections



## Again, this talk covered...

1. 1 Definition of blended learning
2. 10 Myths of blended learning
3. 7 Models of blended learning
4. 24 Examples of blended learning



## Any Questions?



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Book: <http://worldisopen.com/>  
Email: [curt@worldisopen.com](mailto:curt@worldisopen.com)

