




Masterclass Part One:

Where Are You R2D2?: Addressing Diverse Learner Needs with the Read, Reflect, Display, and Do Model

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Ok, Million Dollar Question: What words come to mind when I say that I want to motivate learners?




Framework #1: TEC-VARIETY for Online Motivation and Retention

- Tone/Climate:** Psych Safety, Comfort, Belonging
- Encouragement, Feedback:** Responsive, Supports
- Curiosity:** Fun, Fantasy, Control
- ...
- Variety:** Novelty, Intrigue, Unknowns
- Autonomy:** Choice: Flexibility, Opportunities
- Relevance:** Meaningful, Authentic, Interesting
- Interactive:** Collaborative, Team-Based, Community
- Engagement:** Effort, Involvement, Excitement
- Tension:** Challenge, Dissonance, Controversy
- Yields Products:** Goal Driven, Products, Success, Ownership


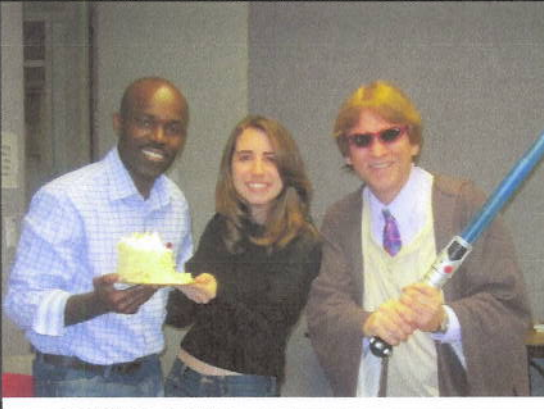


What words come to mind for addressing diverse learner needs?


Frame work: #2: The R2D2 Model

Empowering Online Learning
 100+ Activities for Reading, Reflecting, Displaying & Doing




The R2D2 Method

1. Read (Auditory and Verbal Learners)
2. Reflect (Reflective Learners)
3. Display (Visual Learners)
4. Do (Tactile, Kinesthetic, Exploratory Learners)




1. Auditory or Verbal Learners

- Auditory and verbal learners prefer words, spoken or written explanations.






Read 1a. Wikibook or Wikipedia Editing or Critiques

- Ask students to critique a wikibook or page from Wikipedia



Read 1b. Reading from Open Access Journals (e.g., PLOS)




The International Review of Research in Open and Distance Learning
A refereed e-journal to advance research, theory and best practice in open and distance learning worldwide
Athabasca University

Read 1c. Course Announcements (e.g., Teaching with Twitter; Course announcements and following people (e.g., microblogging)



Read 1d. Listen to Open Access Podcast Shows (and write papers)



Read 1e. Learning Planet: Interactive Glossary
 Umida Khikmatillaeva, Dec. 2011, P540
<http://learningplanet.shutterfly.com/>

Read 1f. Online Article Portals and Databases
<http://r685articledatabase.weebly.com/>
<http://ella.als.indiana.edu/~bahallo/r685/>
http://php.indiana.edu/~cjbork/Syllabus_R685_Spring_of_2011.htm

2. Reflective and Observational Learners

- Reflective and observational learners prefer to reflect, observe, view, and watch learning; they make careful judgments and view things from different perspectives

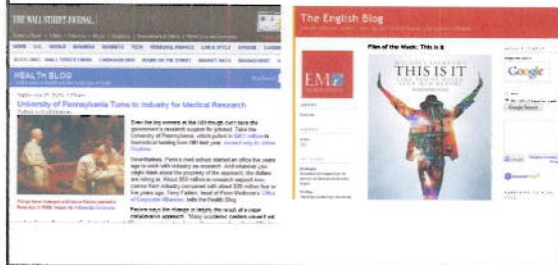
Reflect 2a. Individual Blogging Reflections

Reflect 2b. Critical Friend Blog Postings (Kristen and Susan)

Blogging Questions

1. Who has a blog?
2. Who regularly reads other people's blogs?
3. Who assigns blogging tasks?
4. Who has created a video blog?
5. Who thinks it is an utter waste of time to blog?

Reflect 2c. Expert and Domain Specific Blog Reflections (English, Health, Business, etc. blogs)



Reflect 2d. Cultural Blogs (e.g., Dr. Kim Foreman, San Fran State University, Come and See Africa Blog; <http://comeandseeafrica.blogspot.com/>)



Reflect 2e. Workplace and Field Reflections



Reflect 2f. Scenario Learning (Option 6, Bloomington, IN)

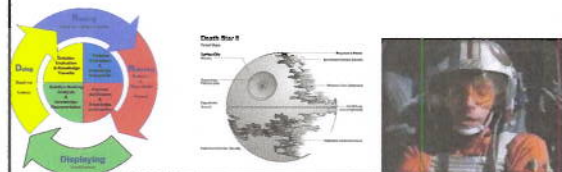


Reflect 2g. Case and Online Discussion (Kelley Direct, IU)



3. Visual Learners

- Visual learners prefer diagrams, flowcharts, timelines, pictures, films, and demonstrations.



Display 3a. Videos for clinical education (Sungkyunkwan University School of Medicine, www.mededu.or.kr)

Display 3b. Online Video Demonstrations (e.g., 3D Printer at Masie Learning LAB) <http://www.masie.com/3dprinter>

Display 3c. Radical Cartography <http://www.radicalcartography.net/index.html?chicagodots>

1795 South Boston
1804 East Boston
1836 Washington Village
1855 Roxbury
1867 Boston Island
1869 Dorchester
1873 West Roxbury
1875 Brighton
1875 Charlestown
1912 Hyde Park

Boston City Limits annexations and landfill, 1804-1912

Display 3d. Concept Mapping and Timeline Tools (VUE, Bubbl.us, Cmap, Freemind, Gliffy, Mindmeister, or Mindomo)

Display 3e. World Trends and Indices (e.g. Worldmapper)

The map shows the growth in scientific research of countries between 2000 and 2010. It shows that the USA has the highest number of scientific publications, followed by the UK, Germany, France, and Japan. The number of scientific publications in the USA increased by 20% per annum in 2010. The number of scientific publications in the USA is the highest in the world. The USA also has the highest number of scientific publications per capita. The USA has the highest number of scientific publications per capita. The USA has the highest number of scientific publications per capita.

Display 3f. Medical Animations and Videos (e.g., YouTube, CNN, BBC)

Display 4g. Medical Simulations in YouTube and Second Life

This display shows two screenshots. The left one is a YouTube video player showing a medical simulation of a heart with a red arrow pointing to a specific area. The right one is a screenshot from Second Life showing a 3D anatomical model of a human torso with internal organs highlighted in blue and red.

Display 3h. Download and Use Online 3D Sketches (Google SketchUp; download <http://sketchup.google.com/3dwarehouse>)

This display shows a screenshot of the Google 3D Warehouse website. It features a 3D model of a bridge, specifically the Roosevelt Island Bridge & Motorgate Parking. The interface includes search bars, navigation buttons like 'Image' and 'Map', and a 'Download Model' button.

Display 3i. Weather-Related Visuals and Animations

This display contains two weather-related images. On the left is a satellite weather map of the Americas showing cloud patterns and precipitation. On the right is a graphic titled 'HURRICANE IKE' showing a cross-section of a hurricane with a color-coded eye and surrounding cloud structure.

Display 3j. Interactive Biology

<http://www.interactive-biology.com/2659/062-pressure-changes-during-breathing/>

This display shows an interactive biology website. It features a central diagram of the human respiratory system with labels for various parts. Below the diagram are sections for 'Cell Biology' and 'The Respiratory System', each containing a list of related topics or concepts.

Display 3k. Wordle

A Pedagogy of Abundance or a Pedagogy to Support Human Beings? Participant Support on Massive Open Online Courses, IRR00L, Kop, Fournier, & Sul Fai Mak, November 2011
<http://www.rrrodl.org/index.php/rrrodl/article/view/1041/2025>

This display shows a Wordle visualization of text. The most prominent words are 'WEB', 'THINK', 'DATA', 'SEMANTIC', 'INFORMATION', 'START', 'THINGS', 'JUST', 'GOING', 'WORLD', 'LIKE', 'SORT', 'DIFFERENT', 'KNOW', 'MARK', 'MUCH', 'WAYS', 'RELATIONSHIPS', 'SOMETHING', 'WAY', 'GOING', 'WORLD', 'INFORMATION', 'START', 'THINGS', 'JUST', 'GOING', 'WORLD', 'LIKE', 'SORT', 'DIFFERENT', 'KNOW', 'MARK', 'MUCH', 'WAYS', 'RELATIONSHIPS', 'SOMETHING', 'WAY', 'GOING', 'WORLD'.

Figure 4. PLENK2010 Wordle.

Display 3L. Interactive Maps


(e.g., New USDA climate zone map reflects northward warming trends, By Janice Lloyd, USA TODAY, January 26, 2012)
<http://www.usda.gov/newsroom/press/2012/01/26/usda-climate-zone-map/23287412/>

This display shows an interactive map of the United States with different climate zones color-coded. Below the main map are three smaller inset maps showing climate zones for 'North', 'Indiana', and 'Ohio'.

Display 3m. Virtual Bones
The Virtual Zooarchaeology of the Arctic Project (VZAP) is a virtual, interactive, osteological reference collection for the study of northern vertebrates...examine the complete skeletal anatomies of multiple bird, mammal, and fish species in both 2D and 3D.
 (Anthropologist Puts an Idaho Museum's Many Bones Within Virtual Reach, Peter Monaghan, July 10, 2011, Chronicle of HE)
<http://vzap.kri.kau.edu/ViewPage.aspx?id=230>



Display 3n. Online History Portals and Resources (e.g., Civil Rights Digital Library and Amistad)



Display 3o. Virtual Tours and Timelines (i.e., HyperHistory; http://simile.mit.edu/timeline/)


Virtual Tour of Oxford

Welcome to the online photographic virtual reality tour of the historic university city of Oxford.

The visually stunning resource uses interactive web pages which allow you to explore and purchase 360 degree photographic panoramas of the city and university. It is constructed from hundreds of high quality photographs of Oxford.

Send electronic comments to friends and family using some of the great photographs found on this web site.

- Take a "Virtual Walking Tour" around Oxford:
 - A Virtual Walk up St Giles
 - Isaac Newton's Chapel
 - Local Web - around City Walls
 - JPR Tolkien's "Oxford" - explore some of the famous sites of Oxford resident J.R.R. Tolkien, author of "The Lord of the Rings"
 - The Virtual Magdalen Walk - from Magdalen Street to Magdalen Bridge
 - The Virtual Walk around the University Park
 - The Virtual Post Office - take a virtual look at one of Oxford's pubs.



Display 3p. Online News Stories
Frontier Airlines employees sharing concerns over impending layoffs, WTMJ News, Feb 14, 2012
<http://www.todaystmj4.com/news/local/139325383.html>



4. Tactile/Kinesthetic Learners

- Tactile/kinesthetic senses can be engaged in the learning process are role play, dramatization, cooperative games, simulations, creative movement and dance, multi-sensory activities, manipulatives and hands-on projects.



Do 4a. Podcast Productions and Shows




Poll: Podcast Questions

- Who has listened to a podcast?
- Who listens to a certain podcast on a regular basis?
- Who has created a podcast?
- Who has created a vodcast?
- Who thinks podcasting is simply more talking heads?




Do 4b. Paired Article Critiques in Blogs




- Students sign up to give feedback on each other's article reviews posted to their blogs.

Article	Student Critique	Student Peer Review
Atkeogh, TB (2007). Does the Community of Inquiry Framework Predict Outcomes in Online MBA Courses?	Stephan Nisanci Carolina Fernandez Lia Yi Alan Bentley	Lorraine Ryan Karin Leonard Flora Liu Lori Adelson
Meyer, R.A. (2003). Face-to-Face versus Threaded Discussions: The Role of Time and Higher-Order Thinking	Lorraine Ryan Hank Diamond Norma Astra Karin Leonard Francesca Whitman	Paul Anderson Yvonne Case Caroline Previtera Lia Yi Alan Bentley
Shera, P., Li, C. S. and Pickett, A. (2006). A study of teaching presence and student sense	Heather Shewett David Wilson	Sofia Rasputich Norma Astra

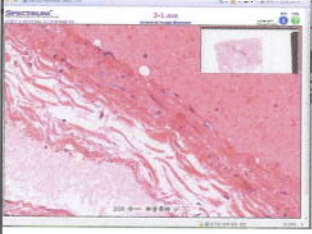


Poll: Wiki Questions

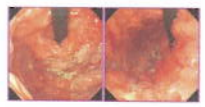
- Who regularly reads Wikipedia articles just for fun?
- Who regularly reads Wikibooks?
- Who seeks Wikipedia for content?
- Who has edited or written new articles on Wikipedia or Wikibooks?
- Who thinks it is ok for students to cite from Wikipedia?



Do 4c. Virtual Microscopes (Sungkyunkwan University School of Medicine, www.mededu.or.kr)




Stomach, endoscopic examination and biopsy. Poorly differentiated tubular adenocarcinoma.




Pituitary adenoma. Anovular gastric carcinoma with multiple long endocytosis with hemorrhagic growth.

Do 4d. Virtual Quizzes (Sungkyunkwan University School of Medicine, www.mededu.or.kr)



Do 4e. Virtual Worlds (e.g., Second Life)



Do 4f. Virtual Worlds with Video Archive
 (e.g., Dr. Monica Rankin's class, UT Dallas, Cuban Revolution)
<http://www.youtube.com/watch?v=D4uBhZN9Oos>

The image shows a YouTube video player interface. The video title is "Castro Salvado". The video content displays a virtual world simulation featuring a large ship on the water and a cityscape with a person walking on a bridge.

Do 4g. Simulation Games

A collage of simulation game screenshots. It includes a military simulation with soldiers in a field, a historical simulation with a large ship, and other game scenes. Text overlays include "Virtual worlds enable new and for society" and "VBS".

Do 4h. Singing YouTube Summaries
 Daniel Halluska, P540, Fall 2011
<http://www.youtube.com/watch?v=IOL7rGsqnw>

A collage of YouTube video thumbnails. The main video shows a man playing an acoustic guitar and singing. Other thumbnails show handwritten notes and the same man singing.

Do 3i. Visual presentations (e.g., Prezi)
<http://prezi.com/iHmhh159xd46/is-the-world-open/>
<http://prezi.com/8h7grxlyaymv/the-world-is-open/>
http://prezi.com/3xaqzbycdbf/learning-theories-in-p540/?auth_key=fcccd8640794bd2158267616e1786a0dd54a701
<http://prezi.com/iHmhh159xd46/is-the-world-open/>

A screenshot of a Prezi presentation. The main slide is titled "Is The World Open?" and features a red and blue background. Other slides show diagrams and text related to the presentation.

Do 4j. Survey Research and Market Analysis
 (e.g., Mister Poll, MicroPoll, Zoomerang, SurveyShare)

A collage of survey research website screenshots. It includes SurveyShare.com, Mister Poll, and MicroPoll. The images show various survey creation and analysis interfaces.

Do 4k. Uploading Mobile Books
 (e.g., BookRix, <http://www.bookrix.com/>)

A screenshot of the BookRix website, showing a grid of book covers. Below it is a mobile book interface with the title "Mobile Devices & Learning" and the subtitle "How mobile devices are re-shaping the field of education".

