

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

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### Introducing R2D2...



### Framework #2: The R2D2 Model



### Yes, there are battles!



### 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)



## 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. Online Article Portals and Databases

<http://r685articledatabase.weebly.com/>  
<http://ella.sis.indiana.edu/~bahaloc/r685/>  
[http://php.indiana.edu/~cjbok/Syllabus\\_R685\\_Spring\\_of\\_2011.htm](http://php.indiana.edu/~cjbok/Syllabus_R685_Spring_of_2011.htm)



**Read 1f. Online Crossword Puzzles**  
 (e.g., <http://www.eclipsecrossword.com/>)

**Create Online Crossword Puzzles!**

Welcome to EclipseCrossword!

EclipseCrossword is the first, easy, free way to create crossword puzzles to promote along the engagement! Crossword puzzles encourage logical thinking and correct spelling. Crosswords can be printed or downloaded to your website.

It's never been simpler to get your EclipseCrossword! A lot of words and clues, and it shows the rest in seconds. You'll have a crossword puzzle with just the words you want. EclipseCrossword has been downloaded more than four million times by people just like you.

Who can use EclipseCrossword!

- Teachers and parents: Use crosswords to review vocabulary and lessons for all subjects. Students may actually enjoy doing the assignment! Crossword puzzles encourage logical thinking and correct spelling. Crosswords can be printed or downloaded to your website.
- Individuals: You can easily create online crossword puzzles with EclipseCrossword—crossword puzzles are a great way to get people to stay on your site, and come back in the future. Your visitors can play the puzzle right on your website, or you can print a printable version for their use online or at home.
- Promotional activities: Individuals create crossword puzzles to promote their products and services. You can use the puzzles to promote your website, or you can print a printable version for their use online or at home.
- Word enthusiasts: Use EclipseCrossword to produce great-looking crossword puzzles. If you're not sure what you'll make, a crossword puzzle generator can help you create a crossword puzzle.

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

**Read 1g. Talking Dictionaries for Rare Languages**  
 The Wall Street Journal, February 18, 2002  
<http://online.wsj.com/article/SB10001424052970204880404577228982976760026.html#articleTabs%3DVideo>

Talking the Talk, for Posterity  
 Oral Online Dictionaries Help Preserve Languages, Cultures Muted by Modernity

Article Video Interactive Graphics Comments (12)







**Read 1h. Online Instructor Q&A**  
 April 1, 2012, Piazza: <https://piazza.com/>

piazza SANDBOX CLASS

Search or add a question

Question posted by [User Name]

How to determine where you're at...

Confused with Ipan



I just can't figure out what to do function but don't know what it is

Students Eagerly E-Mail Professors for Help: A New Service Hopes to Organize the Answers.


Professors & TAs: Save Time, Teach Better.

**2. Reflective and Observational Learners**

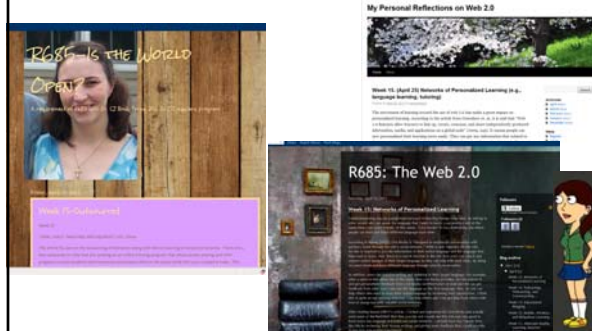
- Reflective and observational learners prefer to reflect, observe, view, and watch learning; they make careful judgments and view things from different perspectives

**Reflect 2a. Individual Blogging Reflections**



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

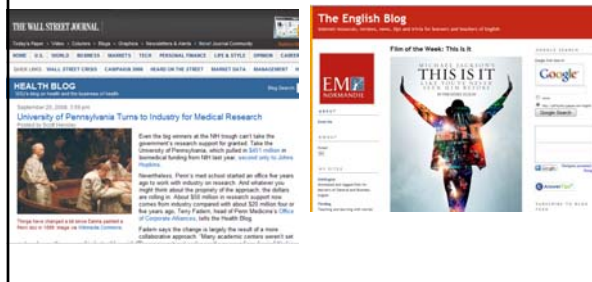


### Poll #23: Blogging Questions

1. Do you have a blog? **Yes or No**
2. Have you created a video blog? **Yes or No?**
3. Do you regularly read other people's blogs? **Yes or No**
4. Do you assign blogging tasks in your classes? **Yes or No**



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



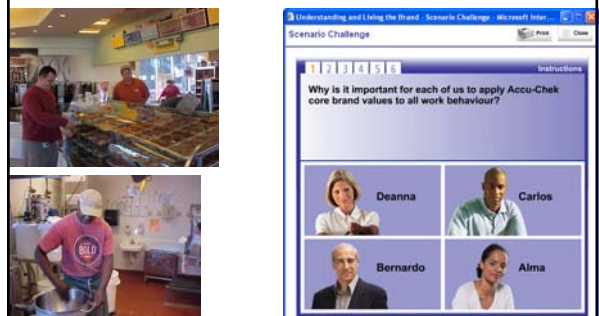
### Reflect 2d. Cultural Blogs (e.g., Dr. Kim Foreman, San Fran State University, Come and See Africa Blog; <http://comeandseeafrica.blogspot.com/>)



### Reflect 2e. Workplace and Field Reflections



### Reflect 2f. Scenario Learning (e.g., Krispy Kreme Management 101)



### 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. Medical Animations (e.g., YouTube, CNN, BBC)

### Display 3c. Human Embryology Animations (Valerie O'Loughlin, Indiana University)

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

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

**WORLDMAPPER** This world as you've never seen it before

Search for a map:

Home Map Categories Thumbnail Index A-Z Map Index About Worldmapper Help

Previous Map **Science Growth** Map No. 206 Open PDF poster Next Map

This map shows the growth in scientific research of territories between 1990 and 2001. If there was no increase in scientific publications that territory has no area on the map.

In 1990, 83 scientific papers were published per million people living in the world; this increased to 228 per million by 2001. This increase was experienced primarily in territories with strong existing scientific research. However, the United States, with the highest total publications in 2001, experienced a smaller increase since 1990 than that in Japan, China, Germany and the Republic of Korea. Singapore had the greatest per person increase in scientific publications.

"Singapore is engaging robustly in the materials science research, as we position ourselves for the global, knowledge-driven economy, and for our next phase of development as a society." Thomas Shanmuganathan, 2003

Territory size shows the proportion of the number of extra scientific papers that were published in 2001, compared with 1990, whose authors work there.

- Open PDF poster, designed for printing. You need Acrobat Reader.
- View labelled territory map or population map for comparison
- Data files: Excel (large with map), Excel (small no map), Geographic format (see notes)
- Technical notes for this data.
- Open Population map for comparison

Open PDF poster

### Display 3f. Interactive Maps (adults with college degrees by county, May 7, 2012)

[http://holycrossmap.com/articles/Keith\\_Pamerson\\_interviews\\_Josh\\_Welton\\_on\\_Interactive\\_Graphics\\_for\\_Higher\\_Education](http://holycrossmap.com/articles/Keith_Pamerson_interviews_Josh_Welton_on_Interactive_Graphics_for_Higher_Education)

Adults With College Degrees in the United States, by County

2005: 8

27.5%

Map Settings: 27.5% (slider for comparison: 40.0%)

Click a county to see its detailed information.

Percentage of adults with bachelor's degree

Compare counties and U.S. average

### Display 3g. Interactive 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>

New USDA climate zone map reflects northward warming trends

USDA Climate Zones

Illinois Indiana Ohio

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

Google 3D Warehouse

Models Search

Roosevelt Island Bridge & Motorgate Parking

Image Map Image 3D View

Made with Google SketchUp

Collections containing this model

Related items

More models by user

Views: 846 (113 in 7 days) Downloads: 240 (52 in 7 days)

Download Model

### Display 3i. Wordle

APedagogy of Abundance or a Pedagogy to Support Human Beings? Participant Support on Massive Open Online Courses, IRRODL, Kop, Fournier, & Sui Fai Mak, November 2011

<http://www.irrodl.org/index.php/irrodl/article/view/1041/2025>

Figure 4. PLENK2010 Wordle.

### Display 3j. Timeline Tools (e.g., USA Today, August 26, 2011)

<http://www.usatoday.com/news/destinations/story/2011-08-25/Martin-Luther-King-Jr-Memorial-in-Washington-A-closer-look/5013637013zap-34new>

Martin Luther King Jr. Memorial in Washington: A closer look

Downloaded by the user

Timeline

### Display 3k. Online Art

Google Art Project,  
NBC Nightly News, April 3, 2012  
<http://www.msnbc.msn.com/id/3032619/vp/46945508#46945508>



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



### Display 3m. Student Collaborative Knowledge Building and Sharing (e.g., Popplet: <http://popplet.com/>)

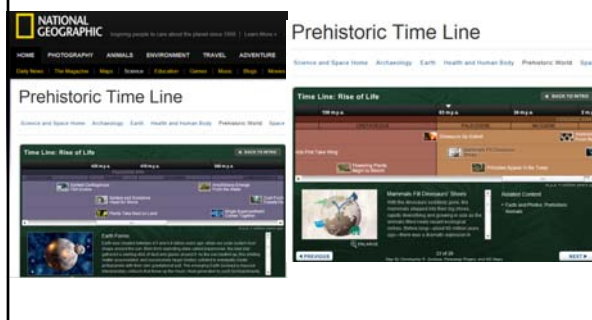


### Display 3n. Online Timelines (US Presidents)



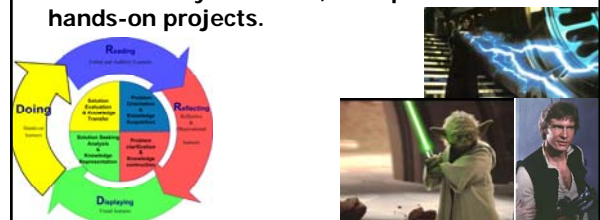
### Display 3o. National Geographic Prehistoric Timeline

<http://science.nationalgeographic.com/science/prehistoric-world/prehistoric-time-line.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.

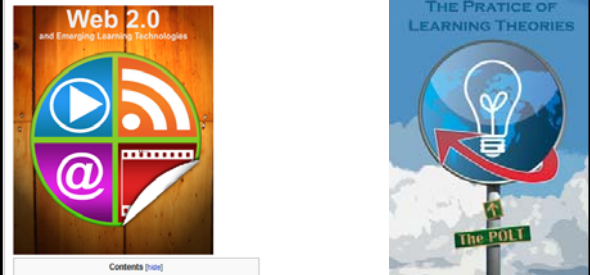


### Do 4a. Podcast Productions and Shows



### Do 4b. Wikibooks: International Collaboration (Web 2.0 and Emerging Learning Technologies (The WELT))

Web 2.0 and Emerging Learning Technologies  
From Wikibooks, the open-content textbooks collection



### Poll #1: Wiki Question(s)

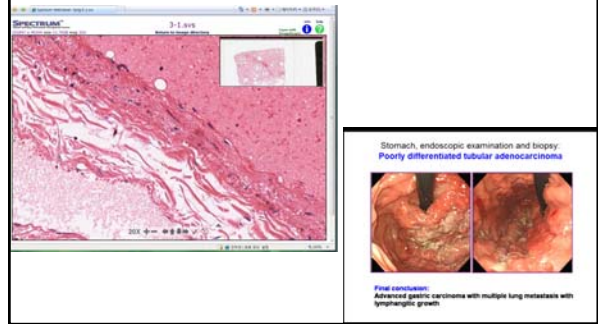
Have you edited or written new articles on Wikipedia or Wikibooks? **Yes or No**



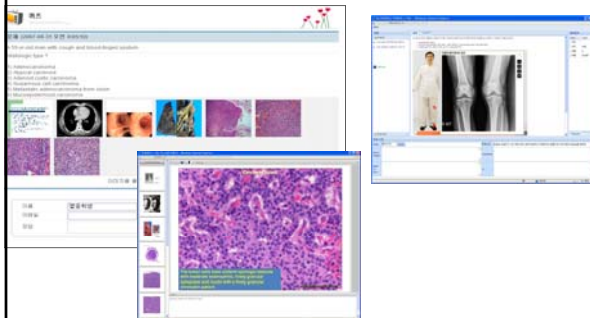
Do you think it is ok for students to cite from Wikipedia? **Yes or No**



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



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



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





### Do 4f. Simulation Games

Patriot Academy conduct near-and-far security

### Do 4g. Singing YouTube Summaries

Daniel Halluska, P540, Fall 2011  
<http://www.youtube.com/watch?v=tOL7lrGsgnw>

### Do 4h. Visual presentations (e.g., Prezi)

<http://prezi.com/hmhhl59xd46/is-the-world-open/>  
<http://prezi.com/8h7orxyaymv/the-world-is-open/>


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

### Do 4j. Negotiate Meanings Online (e.g.m MeetingWords: <http://meetingwords.com/>)

MeetingWords is a simple text editor for the web.  
 Your text is saved on the web, and more than one person can edit the same document at the same time. Everybody's changes are instantly reflected on all screens.  
 Work together on meeting notes, brainstorming sessions, homework, team programming and more!

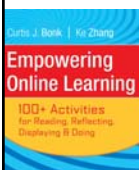

### Do 4k. Podcasts for students of pronunciation class (e.g., Tzu-Su Chen, Taiwan)

**Do 4L. Student Class Documentaries**  
 Umida's R546 Documentary Project  
[http://www.youtube.com/watch?v=EMLTzqCV\\_5A](http://www.youtube.com/watch?v=EMLTzqCV_5A)



**Poll #2: What phase of the R2D2 Method will you use most?**


- A. Read (Auditory and Verbal Learners)
- B. Reflect (Reflective Learners)
- C. Display (Visual Learners)
- D. Do (Tactile, Kinesthetic, Exploratory Learners)

**Remember The TEC-VARIETY Model?**



**T**one/Climate  
**E**ncouragement, Feedback  
**C**uriosity

**V**ariety  
**A**utonomy  
**R**elevance  
**I**nteractive  
**E**ngagement  
**T**ension  
**Y**ields Products




**Poll #3:**  
 Do you feel "MOTIVATED" to try any of this out?

- A. Yes, both
- B. Yes, R2D2
- C. Yes, TEC-VARIETY
- D. Neither

**Poll #4:**  
 Any light bulbs going off in your head so far...?

- A. Yes definitely
- B. Maybe
- C. No



**Any Questions? Try the R2D2 Model!**

Slides at: [TrainingShare.com](http://TrainingShare.com)  
 Papers: [PublicationShare.com](http://PublicationShare.com)  
 Book: <http://worldisopen.com/>  
 Email: [curt@worldisopen.com](mailto:curt@worldisopen.com)

