Masterclass 3: Where Are You R2D2?: Addressing Diverse Learner Needs with the Read, Reflect, Display, and Do Model

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This Generation of Students

November 25, 2014
OER Research Hub, OER Evidence Report: Building Understanding of Open Education 2013-2014

What about the Instructor in the Open World?

Nine “C” Metaphors of Instructors (e.g., “Cat Herders”)

1. Instructor as Credit Manager
2. Instructor as Court Room Judge

3. Instructor as Counselor

4. Instructor as Consultant

5. Instructor as Conductor

6. Instructor as Course Ambassador

7. Instructor as Curator
8. Instructor as Concierge

9. Instructor as Camping Trip Guide

#10? How About Instruction as a Cognitive Apprenticeship?

Expert Apprenticeship from Video


Addressing Learning Styles
Question: How can technology address diverse learner needs?

Framework #2: The R2D2 Model

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. Collect and Listen to Interactive Stories
(e.g., Meograph: http://www.meograph.com/)

Read 1b. Reading about the Life of a Musician
(bio.com)
http://www.biography.com/people/bob-marley-9399524

Read 1c. Exploring the Life of a Prominent People
(Wikipedia)

Read 1d. Twitter Fed Class Discussions
http://chronicle.com/blogs/profhacker/live-tweeting-assignments-to-use-or-not-to-use/58949

Read 1e. Grammar Checkers
(e.g., Grammarly, Ginger, GrammarCheck, PaperRater, and SpellCheckPlus)
http://www.grammarly.com/

Read 1f. Review Blog Resources
(e.g., Martin’s Accounting Blog)
http://martinjquinn.com/
January 28, 2015
Read 1g. Wikipedia Activities (searches, reviews, critiques, edits, reflections, etc.)
- Deferred income
  - Any income that is received before it is earned.
  - Must also be shown as an example of deferred income that is received before it is earned in the accounting period.

Read 1h. Video Tutorials, Demonstrations, and How-To’s
Investopedia (videos, tutorials, etc.)
Accounting Basics: History Of Accounting
- Accounting Basics: History Of Accounting
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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. Big Issue Reflections
(Big Questions Online (BQO)), Feb 3, 2015
(e.g., Is curiosity essential for human flourishing?)
https://www.bigquestionsonline.com/content/do-we-have-souls

Reflect 2b. Interpreting Infographics
July 24, 2014
Woman in Computer Science
http://graduatedegrees.online.njit.edu/mscs-resources/mscs-infographics/women-in-computer-science/

Reflect 2c. Podcast Show Reflections
OperaNow!: http://www.operanowpodcast.com/
LA Behind the Circle Podcast
http://www.lasopa.org/news/Podcast-List/
Reflect 2d. Workplace Internship, Practicum, and Field Experiences

Reflect 2e. Reflect on Virtual Timelines (Dipity, xtimeline, Simile, etc.)

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

Poll #6: Any light bulbs going off in your head so far...?
A. Yes definitely
B. Maybe
C. No

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

Display 3a. Virtualize Words Used (e.g., Wordle, Tagzedo, Tagul, WordSift, Word It Out)
Display 3b. Map Animations
Yes, Mr. President, We Remade Our Atlas to Reflect Shrinking Ice
Christine Dell’Amore, National Geographic, August 3, 2015

Display 3c. Interpreting Infographics
August 5, 2015
How much rainforest in that chocolate bar?
Global Forest Watch, Nancy Harris, Octavia Payne and Sarah Mann
http://blog.globalforestwatch.org/2015/08/how-much-rainforest-is-in-that-chocolate-bar/

Reflect 2d. More Interpreting Infographics
June 12, 2015
Google vs. Apple

Display 3e. (April 28, 2015)
Concept Mapping and Flowcharting
(Bubbl.us, Cmap, Gliffy, Spicynodes, or Mindomo)
http://www.spicynodes.org/index.html

Display 3f. October 31, 2014
Penguin Science (Penguin Cam), Jean Pennycook
http://www.penguinscience.com/
http://www.thistle.org/pcam2/images.shtml

Display 3g. Videos for clinical education
(Verdi - La Traviata (1988) - Complete opera)
https://www.youtube.com/watch?v=49U2a0TO2zQ
Display 3h.
Educational Videos:
CNN, BBC, TED, TED-Ed, ForaTV

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Display 3i.

Display 3j.
Documentary Debates:
e.g., Documentaries on Islamic Extremism
Tribeca Film Festival

Display 3k.
Video Anchor: Drama
(Urban School Performance Project in Lucknow, India)
Kathleen Gallagher from OISE. She does international/urban work using digital technologies to give voices to marginalized youth through drama.

Display 3l.
Tracking the Life of a Scientist
e.g., Brian J. Ford, independent scientist

Display 3m.
Video Tutorials, Demonstrations, and How-To’s
WonderHowTo and Howcast
Display 3n. Video Tutorials, Demonstrations, and How-To’s
WonderHowTo, Howcast, MoneySee
http://www.howcast.com/
http://www.wonderhowto.com/
http://www.monkeysee.com/play/24452-top-accounting-jobs

Display 3o. Video Repositories and Portals (e.g., Khan Academy, Music Masterpieces)
https://www.khanacademy.org/humanities/music/music-masterpieces
http://www.deadseascrolls.org.il/explore-the-archive
http://www.deadseascrolls.org.il/explore-the-archive/search#q=site_en:'Qumran,_Cave_4'

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

Display 3q. Unique OER (e.g., Dead Sea Scrolls)
http://www.deadseascrolls.org.il/home

Display 3r. Syrian Cultural Destroyed, CNN, July 3, 2014
ISIS publicly smashes Syrian artifacts
ISIS publicly smashes Syrian artifacts
ISIS publicly smashes Syrian artifacts

Display 3s. Virtual Microscopes

Display 3t. Ectopic adenocarcinoma
Rectal adenocarcinoma with metastasis to liver. Nodules of adenocarcinoma with metastasis.
4. Tactile/Kinesthetic Learners

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

February 8, 2015

Do 4a. Recap Discussion (e.g., Prezi from Thuy Han for R678 class Week 4)

https://prezi.com/r4vkwqolkrn9/httpswebarchiveorg/web/20040303191129httpwwwnetco/?utm_campaign=share&utm_medium=copy

Do 4b. Student Music Recordings of Course Content

April 26, 2015

IST Groove Song, Jeffrey Jenkins, R511: https://soundcloud.com/jeffjenkins25/ist-groove
The World is Open, Jill Kaufman, R678: https://www.youtube.com/watch?v=ZRGV0Mg5Vmw&feature=youtu.be
Daniel Halluska, P540: http://www.youtube.com/watch?v=tOL7lrGsqnw

Do 4c. Interactive Archive/Gallery of Exemplary First-Year Writing Projects

(Fresh Writing, University of Notre Dame, September 24, 2014; https://freshwriting.nd.edu/)

10. Yields Products, Goals:

E. Student Created Mobile Apps
The App Builder: http://www.theappbuilder.com/
Mintian Guo: http://myapp.is/r685final
1. Combining Phases (Media)
(Dual Coding Theory: Text + Video)
Video (September 20, 2000): http://www.gigwise.com/news/84155/audio-pioneer-

2. Combining Phases (Media)
Unique Open Educational Resources and Portals
(e.g., Mozart: http://www.mozartproject.org/)

3. Combining Phases (Media)
Media Generated Content as Instructional Anchor
(e.g., Blues Music, Film, etc.)
(Blues legend B.B. King dies at age 89, May 15, 2015, VNN)
http://www.cnn.com/2015/05/15/entertainment/bb-king-dead/index.html

4. Combining Phases (Media)
Tracking Researchers and Explorers
http://lt.umn.edu/eartheducation/expedition6/

5. Combining Phases (Media)
Design Article Database in Facebook, Jenny Webeck
https://www.facebook.com/JennyBELTT/timeline
Dr. Bonk’s creative fun time group (R546)
https://www.facebook.com/groups/830496290323899/

Poll #7: Which do you prefer…
(A) TEC-VARIETY or (B) R2D2?
Poll #8: How many ideas did you get from this talk?

1. 0 if I am lucky.
2. Just 1.
3. 2, yes, 2...just 2!
4. Do I hear 3? 3!!!!
5. 4-5.
6. 5-10.

Poll #9: Where are we headed? Where is Education 3.0?

February 20, 2013
Star Trek-like holodeck may be closer to reality than you think
Matt Hartley, Financial Post, Canada

http://business.financialpost.com/2013/02/20/star-trek-like-holodeck-may-be-closer-to-reality-than-you-think/?__lsa=054d-d58d

Poll #10: Any Questions?
Slides at: TrainingShare.com
Papers: PublicationShare.com
Free Book: http://tec-variety.com/
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