Rowan University Rowan Digital Works

Libraries Scholarship

University Libraries

5-7-2020

SIFTing and Four-Moving Online: Opportunities and Challenges with Teaching Lateral Reading through an Online Module (conference presentation)

Andrea Baer Rowan University, baera@rowan.edu

Daniel G. Kipnis Rowan University, kipnisd@rowan.edu

Follow this and additional works at: https://rdw.rowan.edu/lib_scholarship

Part of the Information Literacy Commons

Recommended Citation

Baer, Andrea and Kipnis, Daniel G., "SIFTing and Four-Moving Online: Opportunities and Challenges with Teaching Lateral Reading through an Online Module" (2020). Libraries Scholarship. Presentation presented at Loex Conference. https://rdw.rowan.edu/lib_scholarship/19

This Presentation is brought to you for free and open access by the University Libraries at Rowan Digital Works. It has been accepted for inclusion in Libraries Scholarship by an authorized administrator of Rowan Digital Works.

SIFTing and Four-Moving Online: Opportunities and Challenges with Teaching Lateral Reading through an Online Module

LOEX 2020 Andrea Baer, History and Political Science Librarian Dan Kipnis, Life Sciences Librarian Rowan University



SIFTing and Four-Moving Online: Opportunities and Challenges with Teaching Lateral Reading through an Online Module

Welcome! Please go to: <u>https://www.menti.com/gytnbbkvz7</u> and answer the following question: Reflect on your experience teaching source evaluation. Share about a related challenge or success.

Session Learning Outcomes

- Reflect on and share experiences with teaching about source evaluation.
- Become more informed about "lateral reading" strategies for source evaluation.
- Reflect on opportunities and challenges with practicing and teaching about lateral reading.

Key Project Considerations

- Identifying stumbling blocks of practicing and teaching about lateral reading
- Developing strategic scaffolding (building on students' prior learning and creating multiple opportunities for modeling lateral reading, for student practice, and for feedback)

Why "Lateral Reading"?

- Reading "across sources" to see what others say about a web source (spending limited time on the web source itself when initially evaluating it)
- The practice of fact-checkers
- Limitations of evaluation checklists like CRAAP and RADCAB (<u>Caulfield, 2018</u>)
- "Civic online reasoning" and "lateral reading" work by the <u>Stanford History Education Group (SHEG)</u> and Mike Caulfield (<u>Breakstone et al. 2019</u>; <u>McGrew et al. 2019</u>; <u>Caulfield, 2017</u>)

Video "Online Verification Skills: Introductory Video" (Newswise - 3:13)



https://www.youtube.com/watch?v=yBU2sDIUbp8a

Poll: Have you taught "lateral reading" before?

- Yes
- No, but I am familiar with the concept of lateral reading.
- This is the first time I've heard of lateral reading.

Poll: If you have taught "lateral reading," how satisified were you with the approach?

Rate on scale of 1-5, 1 being lowest.

Review of First Poll Responses

Reflect on your experience teaching source evaluation. Share about a related challenge or success.

https://www.menti.com/gytnbbkvz7

Seeming Simplicity

Lateral reading is seemingly simply, but sometimes tricky.

- How widely do you read? How deeply do you go?
 (balancing depth of source analysis and time constraints)
- Getting creative when information on a source isn't readily found
- The power of beliefs and confirmation bias (more on this later)

Our Context at Rowan

Rowan University (New Jersey)

- 1923 Glassboro State College (Normal school)
- 1950 Glassboro State University
- 1997 Rowan University
- Established Cooper Medical School of Rowan University (Allopathic, 2012); merged with Rowan School of Osteopathic Medicine (Osteopathic, 2013)

Rowan University Growth

- Carnegie Classifications (R3, 2017; R2, 2018)
- Rapidly growing enrollment (3,550 increase in 3 years)
- FTE Fall 2019 = 17084.38
- 176 new tenure track faculty hired in five years, initiative to hire 100 more in next five
- New PhD programs
- Gradual emphasis to STEM
- Continuing sizable teacher education program

Overview of Our Project

- Interactive tutorial, initially to broaden library's reach to online courses
- Project evolution
 - From a one-off workshop to an online tutorial
 - Relevance to online and face-to-face courses (and to the broader university community)
 - Seeking to expand instruction and outreach beyond the tutorial
- Developed originally in Canvas, then created in LibGuides
 - Accessible to larger audience
 - Allows librarians more control + potential for assessment

Strategic Scaffolding

Scaffolding

- Pre- and post-test
- Modeling>Student practice>Librarian feedback
- "Tips" that address common challenges
- Post-activity reflection
- Final Points to Remember
- Final survey and completion certificate
- Follow-up with faculty

Our LibGuide module: go.rowan.edu/evaluating

Rowan Universi	CAMPBELL LIBRARY		
	I: Evaluating Online Sources through Lateral Reading (Part 1/2) / About This Tutorial line Sources through Lateral Reading (Part 1/2)	Search this Guide	Searc
About This Tutorial	About This Module		
Evaluating Online Sources: Part 1 Introduction	Title: Evaluating Online Sources through Lateral Reading: An Introduction Audience: Rowan students, faculty, and staff interested in strengthening their fact-che	cking and online source evaluation	on skills
Pre-Activity	Purpose: Developing new strategies for evaluating online sources and improving one		
An Overview of "Lateral Reading" SIFT and Four Moves	to recognize credible sources Learning outcomes:		
Lateral Reading in Practice Stop/Pause Investigate/Find trusted	 Be familiar with the SIFT and "Four Moves" approaches to evaluating online sou Recognize the importance of pausing when you have a strong emotional reactio sources more critically. Apply the SIFT and "Four Moves" approaches to completing an initial evaluation 	n to an information source in orde	er to analyze
coverage Trace information back to the original context	Prerequisites: none Suggested time: 30-40 minutes		
Time to Practice Exercise:	Suggestions for proceeding with module: To protect your device from malware, do not download files that you do not recognize! Suggested search engine: Google	not click on links that look suspici	ious, and do
Evaluate Minimumwage.com	About the Authors		
	Andrea Baer is the History and Political Science Librarian at Rowan University Librarie years. Prior to becoming a librarian Andrea taught literature, languages, and writing in education. Her research and writing focuses on information literacy and reflective teach	various educational settings, inclu	
	Dan Kipnis is the Life Sciences Librarian at Rowan University Libraries. He has worked published on a variety of topics including digital archives and information literacy.	d as an academic librarian for 19	years and ha

About This Tutorial

Evaluating Online Sources:

Part 1 Introduction

Pre-Activity

An Overview of "Lateral Reading"

SIFT and Four Moves

Lateral Reading in Practice

Stop/Pause

Investigate/Find trusted

coverage

Trace information back to the original context

Time to Practice

Exercise: Evaluate Minimumwage

Pre-Activity

Please complete the short Pre-Activity below. BE SURE TO WRITE DOWN THE NUMBER YOU ARE GIVEN AT THE BEGINNING OF THE ACTIVITY. YOU WILL NEED IT TO COMPLETE THE OTHER ACTIVITIES. If you misplace your number, you will need to restart all of the activities.

If you do not see the form below, please complete the exercise through this link. After you complete the activity, proceed to the next tutorial page.

Rowan University

MAKE SURE YOU WRITE DOWN THIS NUMBER. YOU WILL NEED IT TO COMPLETE THE OTHER ACTIVITIES. 3346

The <u>tutorial creators</u> are collecting responses to the tutorial activities in order to assess their effectiveness. If you agree to have your responses included in their analysis, your (de-identified) responses may be used in related presentations or publications. All data collected will be de-identified (anonymized).

O Yes, I agree to have my de-identified responses used in assessment of this tutorial.

O No, I do not agree to have my de-identified responses used in assessment of this tutorial.

Please briefly evaluate the credibility of the following two sources. Click the links to view each source. Then decide whether each source is overall credible or overall not credible.

Water Fluoridation Linked to Diabetes and Low IQ

https://articles.mercola.com/sites/articles/archive/2016/09/06/water-fluoridation-diabetes-low-iq.aspx

Random number generated for each participant

Consent question for collecting data

Pre-test

Water Fluoridation Linked to Diabetes and Low IQ
https://articles.mercola.com/sites/articles/archive/2016/09/06/water-fluoridation-diabetes-low-iq.aspx
O Credible
O Not credible
Japanese Pancake Baths Let You Bathe in Maple Syrup
https://www.geek.com/culture/japanese-pancake-baths-let-you-bathe-in-maple-syrup-1693158/
O Credible
O Not credible
Please briefly describe your process of evaluating the sources.

Japanese Pancake Baths Let You Bathe in Maple Syrup

BY BRITTANY VINCENT 03.21.2017 :: 6:00AM EDT MOLOTOVCUPCAKE

f y in 9 🗇 F



Overview of Lateral Reading

One caveat before watching video 2:

When researching contentious topics, especially topics that are new or about which less research has been done, you'll often need to do more work than this video suggests (for example, current political debates like Medicare for All).

...And a note about Wikipedia:

You may have heard in the past that you should avoid Wikipedia as a source. We (like Caulfield) will instead encourage you to use Wikipedia, but to do so while recognizing both its strengths and its limitations. Most Wikipedia articles are highly accurate, as Wikipedia has editors who work to ensure that Wikipedia content adheres is its editorial practices, including providing evidentiary sources. Wikipedia articles that are longer and that are older tend to be of higher quality because they have been developed and improved over time by individuals who follow Wikipedia's best practices. That said, it's still true that someone can put inaccurate information on Wikipedia that is not immediately corrected. Wikipedia articles that are about contentious topics and that are undeveloped should be evaluated with greater care. You can also use the references at the end of a Wikipedia page to help you determine its level of accuracy.

Online Verification Skills: Investigate the Source (2:44)

Highlighted box to address common questions

Online Verification **Skills** – Video 2: Inves...

NW.

SIFT and 4 Moves

<u>SIFT</u>

- 1. STOP. Pause and ask yourself
- 2. INVESTIGATE the source.
- 3. FIND trusted coverage.
- 4. TRACE claims, quotes, and media back to the original context.
 From Mike Caulfield's SIFT (Four Moves)

<u>4 Moves</u>

- 1. Check for previous work
- 2. Go upstream to the source
- 3. Read laterally
- 4. Circle back.

From Mike Caulfield's "Four Moves," Web Literacy for Student Fact-Checkers

Autism One Conference example walk through

AutismOne 2020 C Loews Chicago O'Hare Hote Where	General registration \$79	t the first result, an article on Autism One from RationalWiki.
Home News & Articles Register and Learn More	Google	A tot logged in Takk Centritudions Greate account Log in Page Tak Page Tak Read Edit Fossil record Search C The election booth for the RationalWiki 2019 Moderator Election is now closed. Results will be announced soon! Autism One
38 Children Recco MMS This presentation will outline the approach Kerth last up desplain how MMS (chlorine dioxide) has become works with. MMS is available workdwide, and is exit or geographic limitations. This presentation seeks to Kert Rivera Director and Founder of Autlisms	Q. "Autism One Conference wikipedia" Badon page Al logit Google Search I'm Feeling Lucky	We 3.2 Quantum medicine We 3.3 Hyperbaric oxygen therapy Ref 3.3 Hyperbar
translating the ARY & Biomedical Venciendo el Autismo" (Puerto F bilingual mentor for TACA, and member of the Glob http://www.Autismo2.com.@P Date/Time: Sun, 05/27/2012 - 9:00am - 10:00am	Here's what we got with our search. (Your results page may look slightly different, since online information i since your personal browser settings may affect your results.) Google *Autism One Conference wikipedia* Q All IN News Inages Videos Ø Shopping I More Settings	The second result on our Google results page was a Wikipedia article about "Generation Rescue" that mentioned Autism One. As in this situation, often you may not find a Wikipedia article that is exclusively about the source you're interested in, but the source may still be discussed in another Wikipedia article. This can provide important context for understanding the source. Let's look at what it says
	About 2,420,000 results (0.66 seconds)	Reception [edit] Generation Rescue previously co-sponsored an annual conference in Chicago along with another controversial charity, Autism One. The choice of speakers at these conferences led critics to accuse both organizations of promoting unproven therapies, such as the Miracle Mineral Solution, as a purported cure for autism. ^[24] These conferences have also been criticzed because Andrew Wakefield has spoken at them. ^[25] They have also been criticzed because many of the speakers presenting "so-called treatments" have a financial interest in them. ^[26] J.B. Handley said of Andrew Wakefield, originator of the claim that the MIR vaccine causes autism. "To our community, Andrew Wakefield is Nelson Mandela and "Control".

Jesus Christrolled up into one. He's a symbol of how all of us feel. (27)[28] However, Wakefield's work has been characterized as "an elaborate fraud" [29] and parental

utorial. Evaluating Off	line Sources through Lateral Reading (Part 1/2)	Search this Guide	Searc
About This Tutorial	Exercise: Evaluate Minimumwage.com		
Evaluating Online Sources: Part 1 Introduction	If you do not see the form below, please complete the exercise through this link. After you complete the exercise, you'll get instructions on how to proceed to Part 2.		
Pre-Activity An Overview of "Lateral Reading" SIFT and Four Moves	Rowan University		
ateral Reading in Practice			
Stop/Pause Investigate/Find trusted coverage	Please log in. Random number for		
Trace information back to the original context	student		

Evaluation activity (Minimumwage.com)

Rowan Universit	У	
ls Minimumwage.com a trustwort	Rowan University	
O Yes		
○ No		Rowan University CAMPBELL LIBRARY
Explain your reasoning. How did evidence supports your assessm	Thank you for submitting your response. When you are ready continue with Part 2.	/ Part 2 Introduction + Campbell Library / Research Guides / Tutorial: Evaluating Online Sources through Lateral Reading (Part 2/2) Exercise Feedback Tutorial: Evaluating Online Sources through Lateral Reading (Part 2/2)
	Copy and paste the link below into your brows password: readingacrosssources	Please enter the password provided by your instructor or the library to access this content.
	libguides.rowan.edu/tutorial-evaluatingonlinesouro	Enter password Go Need the password? Contact the library or your instructor. Have the password but are having trouble? Please see the password FAQ.
		Last Ledated: Ech 24, 2020 0:48 AM LIDL: https://librarides.courp.edu/bitedal.aug/unitegeolineseuroec2 Digit Dags

Revisiting minimumwage.com: Post-activity reflection

	Post-Activity Reflection
Feedback	If the questions do not appear below, click here to access the post-activity reflection. After submitting your exercise you'll be di
vity Reflection	to the last part of this tutorial (Points to Remember).
	Rowan University
	Did you arrive at a similar conclusion about MinimumWage.com as we did?
	Did you arrive at a similar conclusion about minimumwage.com as we did?
	O Yes
	O No
	How was your evaluation process similar to or different from ours? Would you suggest any strategies that we had not already presented?
	strategies that we had not already presented?
	Now that you've compared your and our source evaluations, would you change anything
	about your evaluation process?

Certificate of completion

Tutorial: Evaluating Onli	ine Sources through Lateral Reading (Part 2/2)	Search this Guide	Search
Part 2 Introduction + Exercise Feedback	Points to Remember		
Post-Activity Reflection Points to Remember	Final Exercise (Needed for Confirmation of Completing Please take a moment to reflect on your learning with the short survey below. If the survey through this link. Thank you!	,	nplete it
	Feel free to review and bookmark the Evaluating Online Sources tutorial anytime. We well requests. Our goal in creating this module was to introduce new and essential strategies for evaluat that you can apply to your daily life and to both academic and non-academic activities (for candidate, researching to buy a car, buying a house, student loans, writing a research pap we've introduced here, they'll become easier and more automatic, and you'll be able to ev	ing online sources. These are example, evaluating a presid per). As you continue to praction	e lifelong skills lential ce the skills
	 quickly. If you have any future research questions, please do not hesitate to ask: Andrea Baer, PhD, History and Political Science Librarian (baera@rowan.edu) Dan Kipnis, MSI, Life Sciences Librarian (kipnisd@rowan.edu) All Campbell Library subject librarians Rowan University 		
	Glassboro, New Jersey		

Other Considerations

The Power of Beliefs

Confirmation bias: tendency to more readily believe information that fit one's preexisting views and to discount information that challenges those views

Backfire effect: upon having one's strongly held views are challenged, those views often become stronger (<u>Cook &</u> <u>Lewandowsky, 2011</u>)

 The backfire effect and other forms of "motivated reasoning" are especially salient when engaging with social and political issues that elicit strong emotions (<u>Kahne & Bowyer, 2017;</u> <u>Lodge & Taber, 2005; Taber & Lodge, 2016; Weeks, 2015</u>)

The Power of Beliefs: Pedagogical Implications

- Sources that require more careful evaluation are often on topics about which people may have strong pre-existing views. (e.g., vaccines, traditional/alternative medicine, government/economic policies).
- Importance of raising awareness that our beliefs influence how readily we accept/dismiss claims and evidence that affirm or challenge those beliefs

The Power of Pausing

Step 1 of SIFT: Stop/Pause - allows time for people to move past initial reflexes and to a more critical mindframe.

"STOP. Pause. Ask yourself if you recognize the information source and if you know anything about the website or the claim's reputation. ...Also take note if you have a strong reaction to the information you see (e.g., joy, pride, anger). If so, slow down before you share or use that information. We tend to react quickly and with less thought to things that evoke strong feelings. ...

Stop/Pause in Action (Evaluating an <u>Autism One Conference presentation</u>)

Contextualization of a source as one part of pausing (e.g., Where is this from? Who created it? What is it about? What do I know about this topic or issue?)

- Modeling an observational and fact-based analysis of source
- Acknowledging what we do and do not know about the source
- Reserving initial value judgements

A work in progress: Hopes to expand nudges to "pause" and reflect

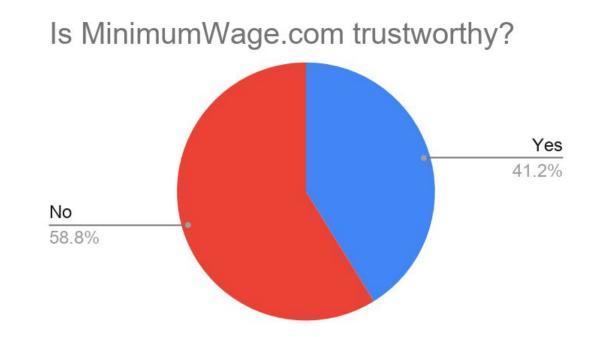
Initial Assessment

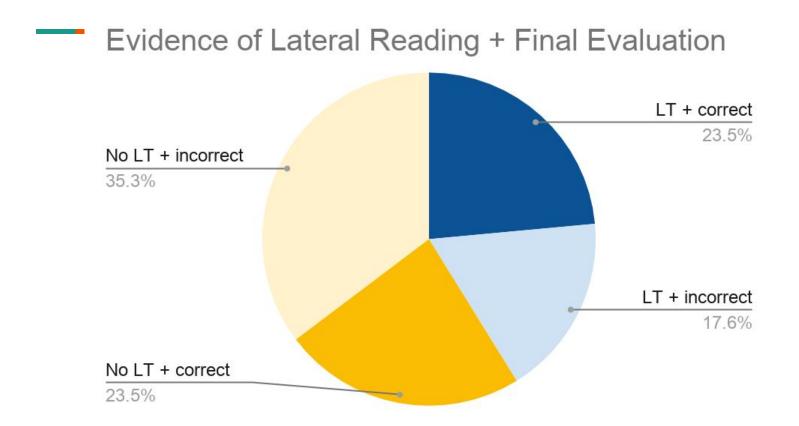
Initial Assessment (n=17)

(Prior to adding pre-test)

17 undergraduates enrolled in a humanities course

- Mostly juniors and seniors (2 2nd-year, 6 3rd-year, 3 4th-year)
- 7/12 respondent early education students





Our Next Steps

- Getting more participants in and outside of Rowan
- Integrating Grounding Questions from SHEG's Civic Online Reasoning
 - Who is behind this information?
 - What is the evidence?
 - What do other sources say?
 (McGrew et al., 2018)

Closing Discussion & Feedback

Poll:

Please share one takeaway for your teaching practice from today's session.

Final Reflection & Feedback

https://bit.ly/2R5gFUh

- What did you find most useful about this session?
- What would you like to have seen or experienced differently?
- Is there anything else you would like to share with us, including feedback or suggestions for our tutorial?

Our LibGuide module: go.rowan.edu/evaluating

	Evaluating Online Sources through Lateral Reading (Part 1/2) / About This Tutorial ine Sources through Lateral Reading (Part 1/2)	Search this Guide	Searc
About This Tutorial	About This Module		
Evaluating Online Sources: Part 1 Introduction	Title: Evaluating Online Sources through Lateral Reading: An Introduction Audience: Rowan students, faculty, and staff interested in strengthening their fact-che	ecking and online source evaluation	n skills
Pre-Activity An Overview of "Lateral Reading"	Purpose: Developing new strategies for evaluating online sources and improving one to recognize credible sources	's ability to investigate source cred	ibility in orde
SIFT and Four Moves	Learning outcomes:		
ateral Reading in Practice Stop/Pause Investigate/Find trusted	 Be familiar with the SIFT and "Four Moves" approaches to evaluating online sources. Recognize the importance of pausing when you have a strong emotional reaction to an information source in order to analy sources more critically. Apply the SIFT and "Four Moves" approaches to completing an initial evaluation of a web source's credibility. 		
coverage	Prerequisites: none		
Trace information back to the original context ime to Practice	Suggested time: 30-40 minutes Suggestions for proceeding with module: To protect your device from malware, do not download files that you do not recognize!	not click on links that look suspicic	ous, and do
Exercise: Evaluate Minimumwage.com	Suggested search engine: Google		
	About the Authors Andrea Baer is the History and Political Science Librarian at Rowan University Libraris years. Prior to becoming a librarian Andrea taught literature, languages, and writing in education. Her research and writing focuses on information literacy and reflective teac Dan Kipnis is the Life Sciences Librarian at Rowan University Libraries. He has worke published on a variety of topics including digital archives and information literacy.	various educational settings, inclu thing practice.	ding higher

References

Baer, Andrea and Daniel Kipnis. "Evaluating Online Sources: A Tool Kit." 2019 https://libguides.rowan.edu/EvaluatingOnlineSources

Breakstone, Joel, Mark Smith, Sam Wineburg, Amie Rapaport, Jill Carle, Marshall Garland, and Anna Saavedra. "Students' Civic Online Reasoning: A National Portrait." Stanford History Education Group and Gibson Consulting, November 14, 2019. <u>https://purl.stanford.edu/gf151tb4868</u>.

Caulfield, Michael Arthur. *Web Literacy for Student Fact-Checkers*. Pressbooks, 2017. <u>https://webliteracy.pressbooks.com/</u>.

Caulfield, Mike. "A Short History of CRAAP." *Hapgood* (Blog). September 14, 2018. <u>https://hapgood.us/2018/09/14/a-short-history-of-craap/</u>

Cook, John, and Steven Lewandowsky. "The Debunking Handbook." University of Queensland, November 5, 2011.

https://www.skepticalscience.com/Debunking-Handbook-now-freely-available-download.html.

Kahne, Joseph, and Benjamin Bowyer. "Educating for Democracy in a Partisan Age: Confronting the Challenges of Motivated Reasoning and Misinformation." *American Educational Research Journal* 54, no. 1 (February 1, 2017): 3–34. <u>https://doi.org/10.3102/0002831216679817</u>.

References (con'd)

Lodge, Milton, and Charles S. Taber. "The Automaticity of Affect for Political Leaders, Groups, and Issues: An Experimental Test of the Hot Cognition Hypothesis." *Political Psychology* 26, no. 3 (2005): 455–82

McGrew, Sarah, Joel Breakstone, Teresa Ortega, Mark Smith and Sam Wineburg. "Can Students Evaluate Online Sources?: Learning from Assessments of Civic Online Reasoning. *Theory and Research in Social Education*, 46 (2018): 165–193. https://doi.org/10.1080/00933104.2017.1416320

McGrew, Sarah, Mark Smith, Joel Breakstone, Teresa Ortega, and Sam Wineburg. "Improving University Students' Web Savvy: An Intervention Study." *British Journal of Educational Psychology* 89, no. 3 (2019): 485–500

NewsWise. "Online Verification Skills - Video 1: Introductory Video." June 29, 2018. https://www.youtube.com/watch?v=yBU2sDIUbp8

Taber, Charles S., and Milton Lodge. "The Illusion of Choice in Democratic Politics: The Unconscious Impact of Motivated Political Reasoning." *Political Psychology* 37 (February 2, 2016): 61–85. <u>https://doi.org/10.1111/pops.12321</u>.

Weeks, Brian E. "Emotions, Partisanship, and Misperceptions: How Anger and Anxiety Moderate the Effect of Partisan Bias on Susceptibility to Political Misinformation." *Journal of Communication* 65, no. 4 (2015): 699–719. <u>https://doi.org/10.1111/jcom.12164</u>.