

DIRECTED METHODS OF DIGITAL LITERACY TO TEACH DIGITAL LITERACY

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OVERVIEW

- Understanding the lack of digital literacy.
- Understanding the need for educators to demonstrate mastery of Digital Literacy
- Demonstration of directed methods.

DEFINITIONS

- What is Digital Literacy?
- Digital literacy is the ability to use information and communication technologies to find, evaluate, create, and communicate information, requiring both cognitive and technical skills (American Library Association's digital-literacy task force).

- What is a passive method?
- A method of teaching wherein students solely taking in of information from reading, listening to a lecture, or viewing a video.

- What is a directed method?
- A methodology of teaching with similarities to Modelling wherein the instructor will demonstrate the best practices while including the pupil in the discussion using critical thinking skills.

META- SYNTHESIS RESEARCH METHOD

1. Determine research questions.
2. Establish parameters of exclusion criteria and quality criteria for articles.
3. Conduct database searches.
4. Evaluate articles.
5. Synthesize information correlated with research questions.

CURRENT RESEARCH

- Stanford History Education Group concluded, “More than 80% of students [studied] believed that the native advertisement, identified by the words “sponsored content”, was a real news story” (2016).
- Most curriculum designed for Digital Literacy was created in 1999 therefore it is outdated and irrelevant. “Seventy-four percent of millennials, along with respondents with less than a four-year degree (76 percent), earned an F ” in digital literacy skills (Ascione).

MANY STUDIES CLAIM IT TAKES A STUDENT AN AVERAGE OF 100 REPEATED BEHAVIORS TO CREATE A SUSTAINED HABIT.

The bad habit of simply “Googling it” far out numbers the lessons provided in a classroom, so students have an ingrained habit that must be changed.

When students are presented with a research opportunity, they turn to their personal devices rather than the computer.

The default search strategy for students is simply to input the assignment title.

100 DAYS OF PRACTICE IN A ROW

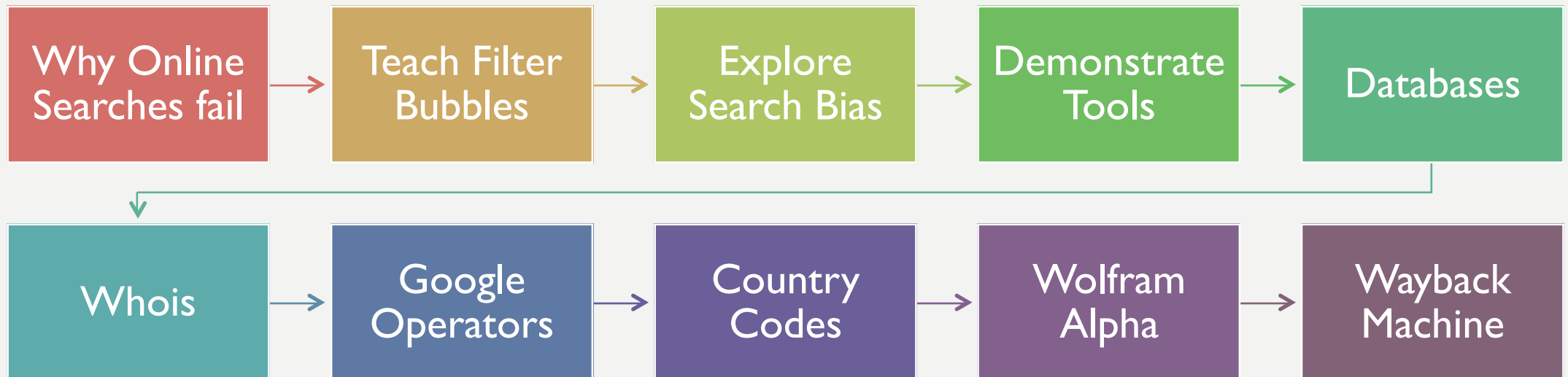
Print a copy of this page, and post it in your room by the place where you usually practice. Each day that you practice, place a math/sticker in the box. When you have reached 100 days of practice, tell your parents, your friends, and your teacher and have a big party to celebrate!

CONGRATULATIONS!

Name: _____

Date Started: _____ Date completed: _____

DIRECTED METHODS



WHAT'S WRONG



Beware Online “Filter Bubbles”
by Eli Pariser

Algorithms intended to meet personal tastes trapped searchers in a "filter bubble" and failed to expose new information that could challenge or broaden our worldview.

Vyvanse® is a prescription medicine used for the treatment of Attention-Deficit/Hyperactivity Disorder (ADHD) in patients who are not on a stimulant. It is not known if Vyvanse is safe and effective for the treatment of obesity.

IMPORTANT SAFETY INFORMATION

Vyvanse is a federally controlled substance (CII) because it can be abused or lead to dependence. Keep Vyvanse in a safe place. Selling or giving away Vyvanse may harm others and is against the law. SAFETY INFORMATION CONTINUED BELOW

WHOIS.net

BIAS

PAID ADVERTISING, LOCATION AND POPULARITY LEAD THE RESULTS LIST.

TOOLS



Academic Writer



Library Citation Tools



Diigo



Wikipedia References

GOOGLE OPERATORS

- filetype:
- allintitle:
- phonebook:
- site:
- allinurl:



RESEARCH

The screenshot shows the top portion of the WolframAlpha website. At the top center is the WolframAlpha logo with the tagline "computational intelligence." Below the logo is a search bar with the placeholder text "Enter what you want to calculate or know about". Underneath the search bar are links for "Extended Keyboard", "Upload", "Examples", and "Random". A descriptive sentence reads: "Compute expert-level answers using Wolfram's breakthrough algorithms, knowledgebase and AI technology". Below this are four category tabs: "Mathematics", "Science & Technology", "Society & Culture", and "Everyday Life". Each tab contains a grid of icons representing various sub-topics.

Examples for Food & Nutrition

Food and nutrition is an integral part of everyday life. With detailed nutritional data on thousands of foods and knowledge of dietary guidelines, Wolfram|Alpha can be used to plan healthy meals and generate custom nutrition labels and detailed analyses of nutrients in thousands of common and brand-name foods. Cooking times and meal preparation data can be used to plan meals accurately.

Nutrition

Access nutritional data for thousands of foods.

Analyze nutritional information for a food:

Create nutrition labels:

[More examples](#)

Branded Foods

Analyze and compare nutrition of brand-name foods.

Specify a food by brand name:

Compare nutrition labels of branded foods:

[More examples](#)

GO FURTHER

[Culinary Mathematics Web App](#)

RELATED EXAMPLES

- Agriculture
- Animals
- Companies

“STOP THINK MODIFY TRY AGAIN”

Students need educators to model the complexity of the questions and model the different methods needed to define results. One of the many struggles is the fluidity and ever-changing algorithms utilized by online databases. Students must be taught how to try one search phrase and how to adjust based on the quality of results.



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RESEARCH QUESTIONS

- Do students understand and evaluate the credibility of information?
- What are current methods used to educate students in Digital Literacy?
- Are passive methods effective?
- What are directed methods of teaching Digital Literacy?

PARAMETERS ARTICLE EXCLUSION

Exclusion Criteria

The article is irrelevant for the study question

The article does not have the relevant population

The article does not have the relevant intervention (or exposure)

The article does not have a relevant comparison group

The article does not discuss the outcome that is of interest to this research

The article is published in a non-standard format and not suitable for review

The article is published in a foreign language and cannot be translated

The article is published outside of the date ranges

The article is a duplicate of another article (same publication published twice)

(Basu, 2017).

QUALITY CRITERIA

Quality Criteria

- The article is relevant to the research questions.
- The research method is appropriate for the research question.
- Research population is appropriate for the research questions.
- The analysis is appropriate for the research questions.

(Newton, n.d.)