

Implementing an Interactive Library Tutorial in an Online General Chemistry Laboratory

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Science Librarianship in the Time of COVID-19 January 13, 2021

Background Information

- Ongoing COVID pandemic caused the General Chemistry Laboratory (CH 116) to switch from in-person to online format a few weeks before the start of the fall semester
- Received frantic email message from the lab coordinator for a library activity that could replace a laboratory activity during the first week of the course
- Needed to quickly create an activity for 25 lab sections with 835 students that would be easy to implement and not add to the work load of the coordinator (and the librarian)

Inspiration Source

- Attended the BLC virtual conference in the fall (Science Librarianship in the Time of COVID-19 on August 5, 2020)
- Decided to attempt for the first time an interactive tutorial based on the below presentation

Rebecca Hill Renirie	Central Michigan University	Laboratory-Based Information Literacy Instruction Using an Interactive Tutorial	1:10-1:25
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Interactive Tutorial

- Created using the LibWizard product by Springshare
- Divided into four modules with short videos followed by assessment questions

Module 1: Scientific Sources – primary, secondary, tertiary

Module 2: Scientific Articles – research, review, news

Module 3: OneSearch – library catalog & discovery system

Module 4: Databases – library general science databases

- <https://uab.libwizard.com/f/genchemtutorialcopy>

Sample Video

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Instructions:

1. View the *Databases* video in right pane or open in new window using link. <https://guides.library.uab.edu/chemistry/videos/databases>
2. Click on **Next Slide** button to begin the quiz.

◀ Prev Slide Next Slide ▶

If the webpage <https://guides.library.uab.edu/chemistry/videos/databases> is not displaying below ?

Open in a new window ↗

☰

DATABASES



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Sample Question

Note: If unable to access Databases in right pane, open in new window using link.

<https://library.uab.edu>

Instructions:

1. Scroll down to **Resources** section.
2. Click on **Databases**.
3. Select **Science (General)** as subject.
4. Scroll down to view database titles.

What databases are recommended as Best Bets for science topics? *(required)*

- Academic Search Premier
- Applied Science & Technology Full Text
- General Science Full Text
- Scopus
- All of the Above

That's correct. There are 4 science databases recommended as Best Bets.

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All A B C D E F G H I J K L M N O P Q R S T
U V W X Y Z #

25 Databases found for Science (General)

Clear Filters/Browse All Databases

Best Bets!

Academic Search Premier [↗](#) **Best Bet** **Popular**

Publications covering a wide variety of academic disciplines. Includes peer-reviewed journals. 1940 - present.

Applied Science & Technology Full Text [↗](#) **Best Bet**

Publications in chemistry, computer technology, geology, mathematics, physics, and telecommunications. Includes periodicals, buyers' guides, directories, and conference proceedings. 1993 - present.

General Science Full Text [↗](#) **Best Bet**

Publications covering science. Includes popular science magazines, professional journals, The New York Times Science Section. 1984 - present.

Scopus [↗](#) **Best Bet**

Abstract and citation database of research literature and web sources.

See related Research Guides: [Scopus](#) and [Predatory Publishing](#)

Certificate of Completion

- Program generated certificate of completion based on threshold score (minimum of 50% with retake option)
- Students uploaded certificate as PDF file to assignment in Canvas to earn points for completing activity

[Print](#)[PDF](#)

Certificate of Completion

This acknowledges the completion of the
UAB Libraries General Chemistry Tutorial
by Jennifer Long on Aug 24, 2020 02:59 PM
with a score of 100.00%.

Activity Assessment

- Submission rate was 100% so all of the students were able to complete the tutorial without reported technical issues
- Average/median score was 80% so the tutorial was not as easy for the students as anticipated by the librarian
- Students accessed the videos later in the semester to help them with an assignment which was surprising because they were posted on a private guide
- Statistical report could be shared with STEM instructors to show them that students need library/information literacy instruction

Sample Statistical Report

Question	% Correct
Source 1 Level	76.50%
Source 2 Level	48.50%
Source 3 Level	71.50%
Source 4 Type	92.90%
Source 4 Authority	97.50%
Source 5 Type	97.00%
Source 6 Type	53.20%
Source 6 Level	73.60%
Source 6 Publish	91.20%
Source 7 Ulrichs	84.90%
Source 8 Type	60.10%
Source 8 Level	73.00%
Source 9 Type	74.50%
Source 9 Level	82.90%
Source 10 Read	96.50%
Source 11 Format	90.20%
Source 12 Location	83.40%
Source 13 Location	88.20%
Source 14 Availability	91.00%
Source 15 Subscription	31.60%
Source 16 Databases	87.20%
Source 17 Boolean	75.50%
Source 18 Filter	91.10%
Source 19 Filter	74.80%
Source 20 Help	97.70%

Library Tutorial for General Chemistry

Average Score 79.38

Median Score 80.00

Std Deviation 12.77

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Thank you!