



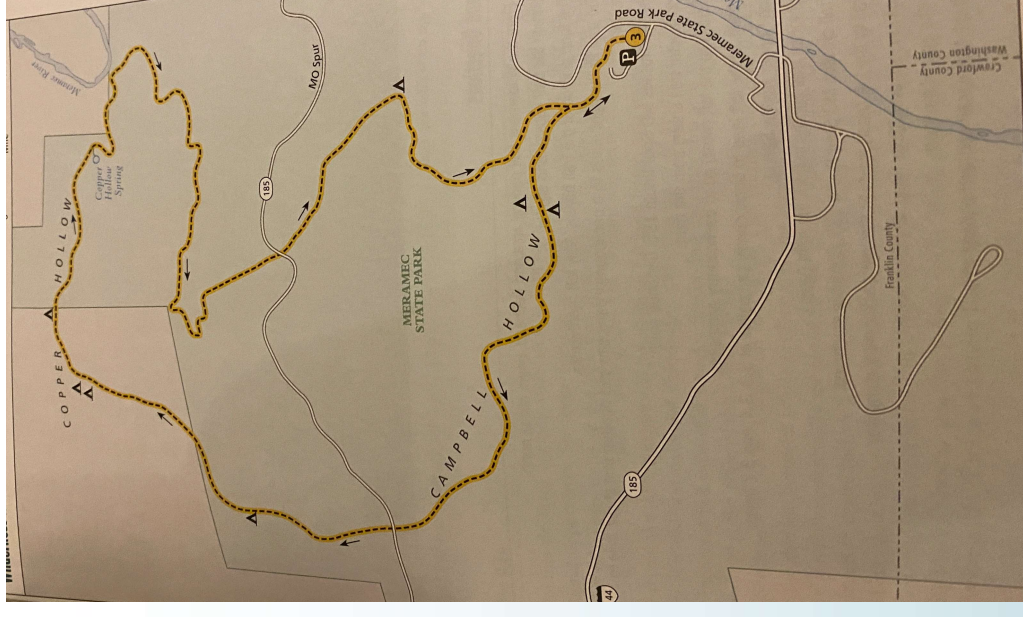
So Many Sections, So Little Time: Using LibWizard to Teach Information Literacy to Hundreds of Students

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Saint Louis University, Saint Louis, MO

Today's Roadmap

- Describe/Demonstrate
- Results/Lessons Learned
- Ideas/Active Learning



Describe/Demonstrate



BIOL 1245: Principles of Biology Laboratory

- ▶ Freshman Biology Lab
- ▶ 77 sections over 3 days
- ▶ Sections happen simultaneously
- ▶ 776 students
- ▶ Previously, unable to integrate library



PROBLEM

BIOL 1245: Principles of Biology Laboratory

- ▶ LibWizard tutorial made of 5 modules
- ▶ Included Activities and Assessments
- ▶ TAs practiced taking the tutorial
- ▶ “On Call” via Zoom all day during lab days
- ▶ Creation of an FAQ for students who wrote questions at the end of the tutorial



SOLUTION

Timeline (June 2020-August 2020)

- ▶ Professor reached out early June 2020
- ▶ Met with professor via Zoom mid-June 2020
- ▶ I proposed modules in outline form late-June 2020
- ▶ Met with professor via Zoom multiple times in July 2020
- ▶ Completed most modules by end of July 2020
- ▶ Finished tweaking modules and "trained" TAs by start of classes (mid August 2020)
- ▶ Students completed modules before, during, and after their lab (2nd week of classes—mid August 2020)
- ▶ Sent students an FAQ mid September 2020

What is LibWizard?

Why Use It?

- **Part of Springshare Suite**
 - Can create Forms, Quizzes, Surveys, and Tutorials
- **Tutorials**
 - Can embed the quizzes, forms, surveys, live websites, videos, text, images
 - Can Create Multiple Modules
 - Can Link Multiple Modules to Each Other
 - Students Can Email Themselves Results
 - Simple, but Versatile

1. Collect Info: Form Wizard



Create & Embed Forms... Anywhere.
FORM WIZARD FEATURES →

2. Gather Feedback: Survey Wizard



Gather Invaluable User Feedback.
SURVEY WIZARD FEATURES →

3. Assess Learning: Gradable Quizzes



Supplement Instruction Efforts.
QUIZ WIZARD FEATURES →

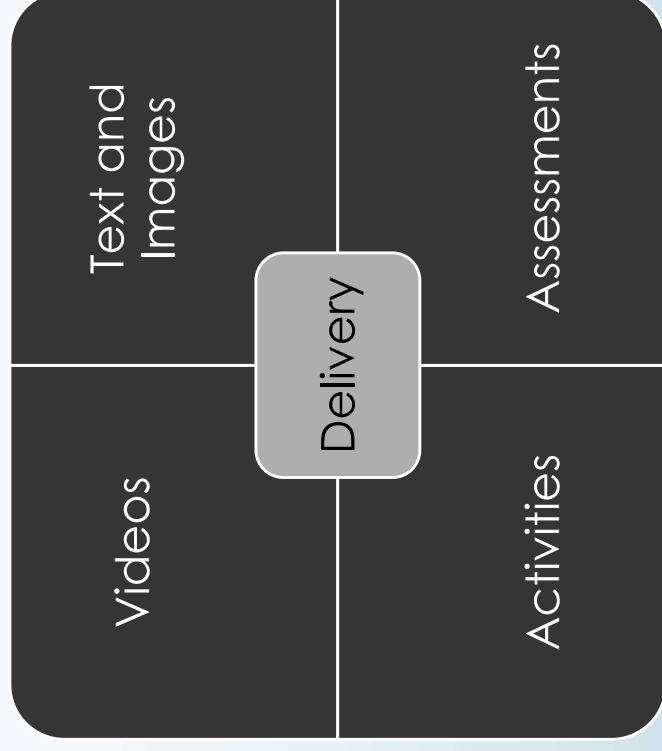
4. Interactive Learning: Tutorials Wizard



Build Self-Paced Learning Modules.
TUTORIALS WIZARD FEATURES →

LIBWIZARD - FORMS, SURVEYS, QUIZZES & TUTORIAL BUILDER

Principles of Biology Laboratory: BIOL 1245 LibWizard Modules



BIOL 1245: Principles of Biology I Laboratory - Module 1 - Introduction and Pre Assessment

Hello! Today we will learn about doing library research and become familiar with the Pius XII Memorial Library at Saint Louis University. We will walk through five short modules that will focus on three learning goals.

By the end of the lab today you will have learned how to:

- 1) Identify and describe scientific literature
- 2) Develop topics and keywords to use in searching for scientific literature
- 3) Search for scientific literature in the library's databases

In addition, you will learn about some of the other services the library offers you. Don't worry if you get stuck at any point. We are here to help you learn and there will be a chance at the end to enter in any questions you have remaining after the lessons today.

[Let's Begin!](#)

Introduction



Research is formalized curiosity. It is poking and prying with a purpose. It is a seeking that he who wishes may know the cosmic secrets of the world and they that dwell therein.

(Zora Neale Hurston)

izquotes.com



Menu



In this first module you will be introduced to the library, research, and me. Saint Louis University has three libraries, but the one you will use the most is the Pius XII Memorial Library. Many things are available online including journal articles, ebooks, research help, and chatting with a librarian.

The library website is

<https://slu.edu/library>

Write it down! Memorize it! You won't regret it.

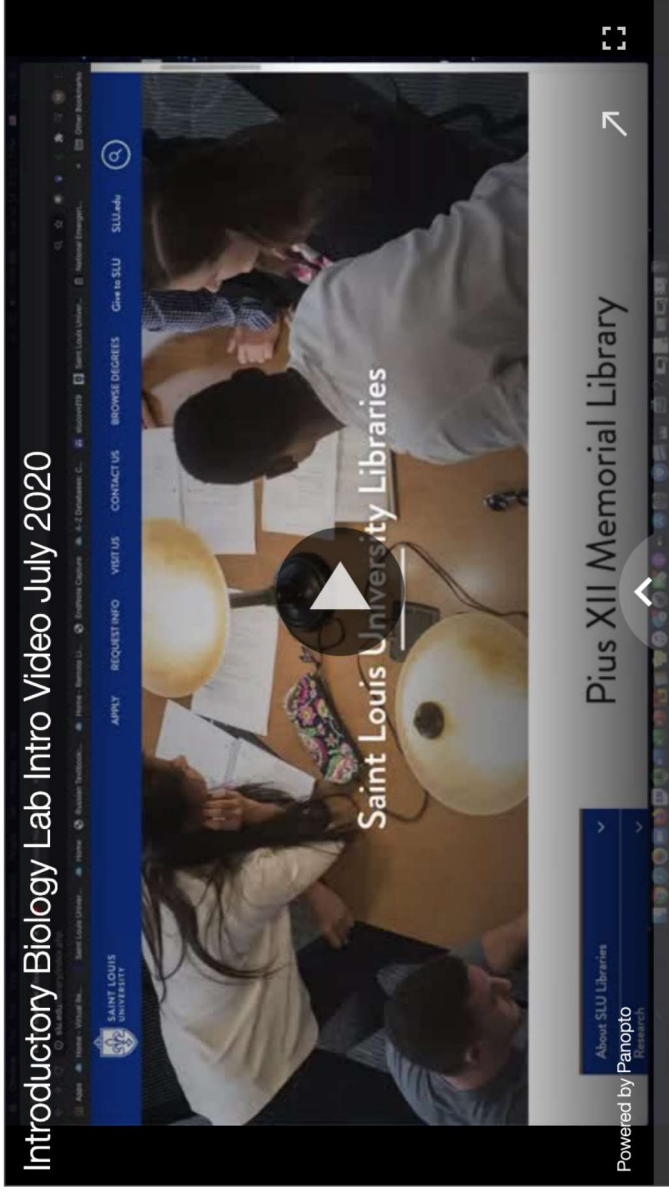
On the next page, let's watch a short video introduction.

Prev Slide

Next Slide

Page: 1 of 5

Introduction Video



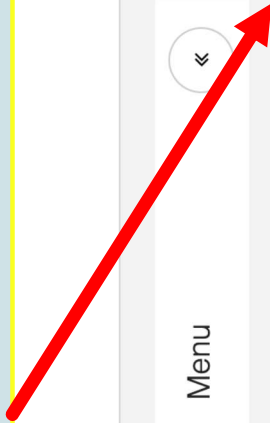
☰ Menu



My name is **Megan Toups** and I'm the STEM Librarian at Saint Louis University, which means I am here to help YOU.

My email is megan.toups@slu.edu (**Write this down too!**).

I'm available to chat or you can email me. I can also set up a research appointment to work with you remotely over Zoom. I can help you get started with research, troubleshoot any issues you have,



Pre Assessment Quiz

BIOL 1245 Pre Assessment

What are two clues to distinguish a scientific research article from a scientific review article? (required)

Write down the name of a science database available at SLU. (required)

Name at least one reason it is a good idea to look for scientific articles in a library database rather than only searching Google. (required)

What is your name? (required)

What is your SLU email address? (required)

Submit

Menu



Please answer the questions on the right.

If you don't know the answers, it's okay. Just try your best.

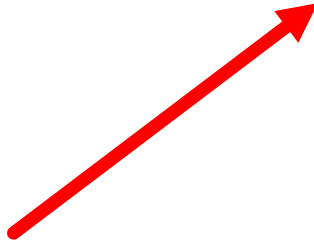
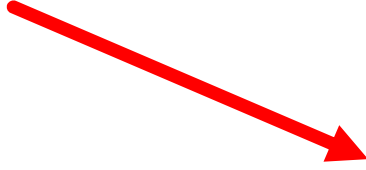
You will **NOT** be graded.

We just want to see what you already know coming into this lab. We'll learn more about these things in today's lab.

When you click submit your results you will be prompted to email yourself the results. **You MUST email the results to yourself. Later on you will submit these to your instructor.**

Check the Box When You Have Submitted Your Pre Assessment AND Emailed it To Yourself. (required)

Completed the Pre Assessment



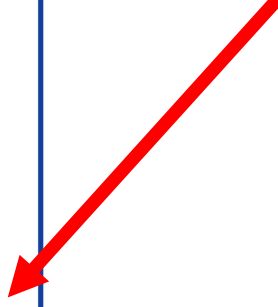
Pre Assessment Quiz

BIOL 1245 Pre Assessment

If you would like a copy of the results, please enter an email address:

Use this Email megan.toups@slu.edu

Continue

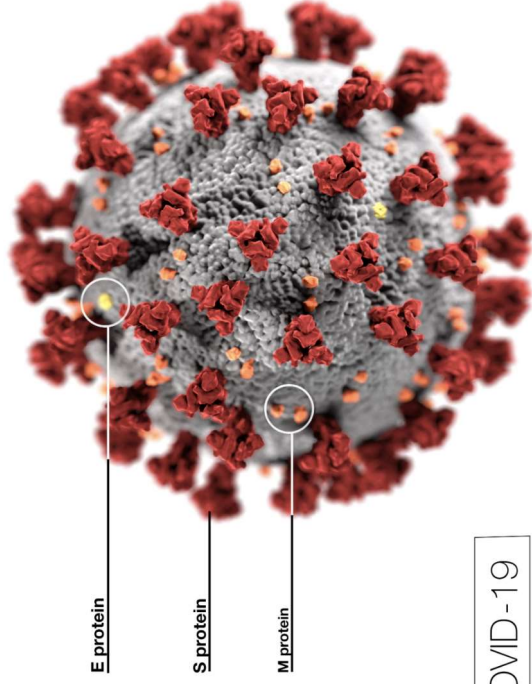


Menu



Please answer the questions on the right.
If you don't know the answers, it's okay. Just try your best.

COVID-19 Considerations



E protein

S protein

M protein

COVID-19



Menu



How to Access Online Library Materials from Off Campus

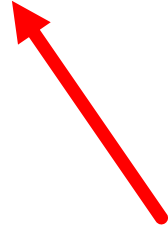
You **MUST** go through the library website so that the system can authenticate you with your SLU net ID and password. Do **NOT** google the name of the database as you will not have a way to be authenticated.

Keeping Up to Date with Any Changes in Services Due to Covid-19

Please **periodically check the library website** for any changes in services and access due to Covid-19. Here is the library website: <https://slu.edu/library>

Prev Slide

Next Slide



Summary



"The Tortoise And The Hare" is actually a fable about small sample sizes.

Menu

«

What did we learn?

The library website is <https://slu.edu/library> If accessing resources off campus, you must go through the library homepage.

On the website you can:

- Find research help
- Chat with a librarian
- Access databases, articles, books, and other resources
- Find updates about library services due to COVID-19

If you remember nothing else, remember you can [CHAT](#) live from anywhere with an internet connection with a librarian for help.

Your STEM librarian is **Megan Toups** and I can be contacted at

BIOL 1245: Principles of Biology I Laboratory - Module 1 - Introduction and Pre Assessment - Tutorial/Assessment Standalone

Select form elements from the left and drag them into the "Form Workpad" area. Customize the properties of each element by clicking on it; then editing the "Properties" area.

[Save Changes](#) [Share / URL](#) [View Reports](#)

Tutorial Options

Basic Info	^
Title	?
BIOL 1245: Principles of Biology I Labora	90/256
Friendly URL	?
BIOL1245_1	10/256
Description	?
Public Access	0/1024
Protect with Local Password	?

Support

Preview

Slide Area

[Edit "Welcome Screen"](#)
Hello! Today we will learn about doing library res.

Introduction	Edit	+	1 - Int	v	🗑
Introduction Video	Edit	+	2 - Int	v	🗑
Pre Assessment Quiz	Edit	+	3 - Pr	v	🗑
COVID-19 Considerations	Edit	+	4 - C	v	🗑
Summary	Edit	+	5 - Su	v	🗑

[+ Add Slide](#)

[Edit "Thank You Screen" / Display "Certificate of Completion"](#)
Thank you! Please complete Module 2.



Slide Workpad

[Back to Tutorial](#)
[Save Changes](#)
[Preview](#)

[Slide](#)
[Fields](#)
[Bank](#)

Basic

- One-line Text Input
- Textarea Input
- Numeric Input
- Date & Time Input

Multiple Choice

- Dropdown
- Radios
- Checkbox
- Rating
- Grid
- Ranking
- Image Choice

Utility

- Text Block
- Line Separator
- Spacer
- Question Page Break
- File Upload

Submitter

- Email
- Name
- Phone

Add/Edit field rules **Reuse Questions**

Slide Content Preview

Introduction Video : Embedded Media

Watch this short video introduction to the libr...

1 - W

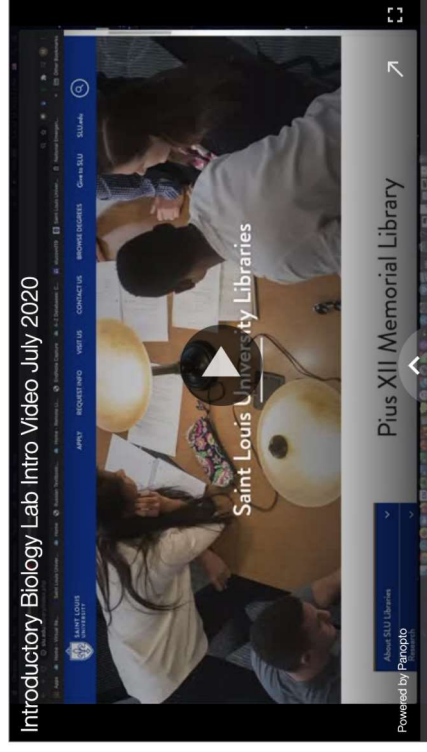
Support

Previous Next

As you can see there are a lot of other things I could have done, such as having students answer multiple choice questions and adding files.

BIOL 1245: Principles of Biology I Laboratory - Module 1 - Introduction and Pre Assessment

Introduction Video



Menu

My name is **Megan Toups** and I'm the STEM Librarian at Saint Louis University, which means I am here to help YOU.

My email is megan.toups@slu.edu (Write this down too!).

I'm available to chat or you can email me. I can also set up a research appointment to work with you remotely over Zoom. I can help you get started with research, troubleshoot any issues you have, or help you find resources. If you aren't sure if I can help, ask! If I don't know, I'll try to find you someone who does. There are **NO** dumb questions, and no question too big or too small.

Watch this short video introduction to the library, research, and me. You can use the icons at the bottom of the video to expand the video to full screen or turn on the closed captions.

Prev Slide

Next Slide

Results



Information Collected

- ▶ **Pre-Assessment**
- ▶ **Quiz**
 - ▶ Pro of Searching Library Database
- ▶ **Topic Development Activity #1**
 - ▶ Finding Keywords for Topic
- ▶ **Topic Development Activity #2**
 - ▶ Narrowing Keywords
- ▶ **Searching Literature Activity #1**
 - ▶ Searching and Filters
- ▶ **Searching Literature Activity #2**
 - ▶ Using DOIs
- ▶ **Post-Assessment**

Pre and Post Assessment Questions

What are two clues to distinguish a scientific research article from a scientific review article? *(required)*

Write down the name of a science database available at SLU. *(required)*

Name at least one reason it is a good idea to look for scientific articles in a library database rather than only searching Google. *(required)*

What is your name? *(required)*

What is your SLU email address? *(required)*

Submit

Pre and Post Assessment Questions

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What is your name? *(required)*

What is your SLU email address? *(required)*

Submit

Quizzes

+ Create New

Refresh

Owner

Show All

To edit a quiz, click on the quiz name. Use the URL/Code column to get embedding/url info. To analyze submissions, click on the number shown in the # of Submissions column.

Filter quizzes by keyword									
Name	Owner	Created	Updated	URL/Code	#Submissions	#Fields	Actions		
BIOL 1285 Post Assessment	Toups, Megan	Feb 04, 2021 12:04 PM	Feb 04, 2021 12:07 PM	</>	2	3			
BIOL 1285 Activity 2: Translation of A/V Material	Toups, Megan	Jan 29, 2021 11:26 AM	Jan 29, 2021 11:30 AM	</>	1	3			
BIOL 1285 Activity 1: Translation of Text	Toups, Megan	Jan 28, 2021 05:49 PM	Feb 04, 2021 12:03 PM	</>	3	4			
BIOL 1285 Pre Assessment	Toups, Megan	Jan 28, 2021 01:17 PM	Feb 04, 2021 06:28 PM	</>	3	6			
testbio1265	Toups, Megan	Jan 25, 2021 11:14 AM	Jan 25, 2021 11:14 AM	</>	0	0			
BIOL 1920 Disaster Activity	Toups, Megan	Oct 05, 2020 03:21 PM	Oct 05, 2020 03:21 PM	</>	0	0			
BIOL 1245 Searching Literature Activity 2	Toups, Megan	Aug 13, 2020 07:51 PM	Aug 13, 2020 09:55 PM	</>	728	8			
BIOL 1245 Post Assessment	Toups, Megan	Aug 12, 2020 03:47 PM	Aug 13, 2020 09:55 PM	</>	724	7			
BIOL 1245 Searching Literature Activity 1	Toups, Megan	Aug 11, 2020 11:24 PM	Aug 13, 2020 09:56 PM	</>	763	8			
BIOL 1245 Topic Development Activity #2	Toups, Megan	Jul 21, 2020 12:05 PM	Aug 13, 2020 09:56 PM	</>	768	5			
BIOL 1245 Topic Development Activity #1	Toups, Megan	Jul 20, 2020 05:54 PM	Aug 13, 2020 09:57 PM	</>	805	6			
BIOL 1245 Quiz 1	Toups, Megan	Jul 20, 2020 12:07 PM	Jul 20, 2020 12:08 PM	</>	0	1			
BIOL 1245 Pre Assessment	Toups, Megan	Jul 16, 2020 04:27 PM	Aug 13, 2020 09:57 PM	</>	875				



LibWizard Report - BIOL 1245 Pre Assessment (Quiz)

Advanced Filters

Data Table [Field Analysis](#)

Live Submissions Report

Search Submissions by Keyword

Search

Live

Preview

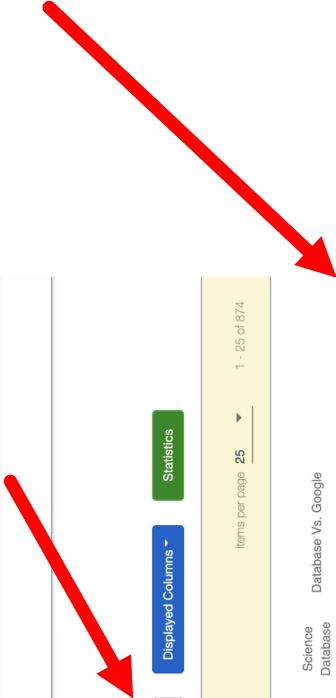
Export CSV

Displayed Columns

Statistics

Items per page 25 1 - 25 of 874

<input type="checkbox"/>	Actions	Submitted	Grade	Research Vs. Review Article	Science Database	Database Vs. Google
<input type="checkbox"/>		Dec 03, 2020 08:50 PM		Research has facts and no bias whereas a review has opinions and a bias.	Opposing Viewpoints	There is a chance that google will give you an unreliable source whereas with the library, rarely at...
<input type="checkbox"/>		Nov 23, 2020 10:59 PM		empirical or primary sources	saint louis university libraries	reliability
<input type="checkbox"/>		Nov 04, 2020 11:21 PM		One way to distinguish is look for how the article is structured. A research article would be more c...	PubMed	One reason for this would be the fact that you can filter the results more easily and you could find...
<input type="checkbox"/>		Oct 15, 2020 11:12 AM	1		1	1
<input type="checkbox"/>		Oct 14, 2020 02:08 PM		The research/review filter and the title of the article	science direct	Easier to find peer reviewed articles
<input type="checkbox"/>		Oct 14, 2020 01:25 PM		The presence of data graphs, and the fact that a review article will have review in the title.	Scopus	You're more likely to find peer reviewed articles.
<input type="checkbox"/>		Sep 30, 2020 01:09 PM		Research article has data and review articles speculate that data	I don't know	They are reliable
<input type="checkbox"/>		Sep 24, 2020 11:19 AM		Signatures	AAS Historical Periodicals Collection	Only searching Google will not really give you the specific answer you're looking for. If you know L...
<input type="checkbox"/>		Sep 23, 2020 08:49 PM		a scientific research article is a document that is produced from a study conducted, which is where ...	Art	google has a variety of articles which are mostly review articles. The issue with these articles is...
<input type="checkbox"/>		Sep 19, 2020 11:23 PM		a research paper is based on original research and not on existing published articles. and research ...	PubMed	because it is just a search engine for the web and not a database of scholar articles
<input type="checkbox"/>		Sep 15, 2020 05:19 PM		A scientific research article is a more study based article. It usually has a format with an hypothe...	SLUth	They have a better filter system and usually are more reliable
<input type="checkbox"/>		Sep 08, 2020 05:02 PM		Scientific research article would be based on your own original research. Scientific review article ...	Biology ebisco and	Biographies



Question: Name One Science Database Available at SLU

Pre-Assessment
Total Submissions: 744
Total Correct: 457

Post-Assessment
Total Submissions: 699
Total Correct: 668

**Number of
Correct Answers
was**

34.2%

**higher in
Post-Assessment**

Pre-Assessment
Percent Correct: 61.4%

Post-Assessment
Percent Correct: 95.6%

Additional Post-Assessment Questions

Name two things you learned during this session: **(required)**

Write any questions you have and I will answer them in an anonymous FAQ for the class:

Top Topics Students Learned:

- ▶ How to Access the Library's Online Resources
- ▶ How to Use the Databases
- ▶ Difference between a Research Article vs. a Review Article
- ▶ DOIs
- ▶ The Importance of Keywords
- ▶ How to Refine Searches
- ▶ The Value of Databases vs. Google for Scholarly Research

What Students Learned (Their Own Words)

“Databases are more than just fancy search bars...”

“I learned some really valuable stuff...#1. Most of our teachers will ask us to use the databases and scholarly research, the days of searching Google are probably done...”

“Science is very minutia intensive...”

“SLU library is not that scary and useless thing I thought from the beginning”

“I learned what a scientific review article is...before, I thought it was review by anyone online of a science topic whether they are credible or not...”

“I didn't know doi.org was a thing and this is gonna be super useful I can tell.”

FAQ for Students |

Answers to Library Questions for BIOL 1245

Table of Contents:

- **ABOUT ME**
- **ACCESS ISSUES**
- **ACCOUNTS**
- **BOOKS**
- **CHOOSING DATABASES AND WEBSITES**
- **CITATIONS**
- **DOIs**
- **KEYWORDS**
- **LIBRARY MISC.**
- **PUBLISHING RESEARCH**
- **READING SCIENTIFIC ARTICLES**
- **RESEARCH VS REVIEW ARTICLES**
- **QUESTIONS THAT YOUR PROFESSOR CAN ANSWER**

Lessons Learned



Lessons Learned (For BIOL 1245)



► When designing an assessment be conscientious about how many questions have a “right or wrong” answer vs open ended questions



► There were areas I didn't cover (such as how to search for books) that could be helpful in the future



► Don't need to be on Zoom for whole lab, but be available at desk for emails all day

Strengths

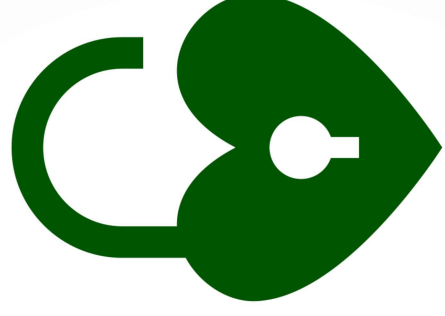
- ▶ Students can go at their own pace
- ▶ Interactive and uses a variety of media
- ▶ Simple, but versatile
- ▶ Can gather statistics and information

Weaknesses

- ▶ Not always intuitive
- ▶ Limited in layout of each slide
- ▶ Managing multiple tutorials

Unlocked an Opportunity

- New tutorial, “Science and Society,” focused on science communication and copyright for second part of freshman biology lab (BIOL 1265) for Spring semester
- Created pre-assessment for Spring tutorial that checks on their retention of the lessons from the Fall and preps them for the Spring tutorial



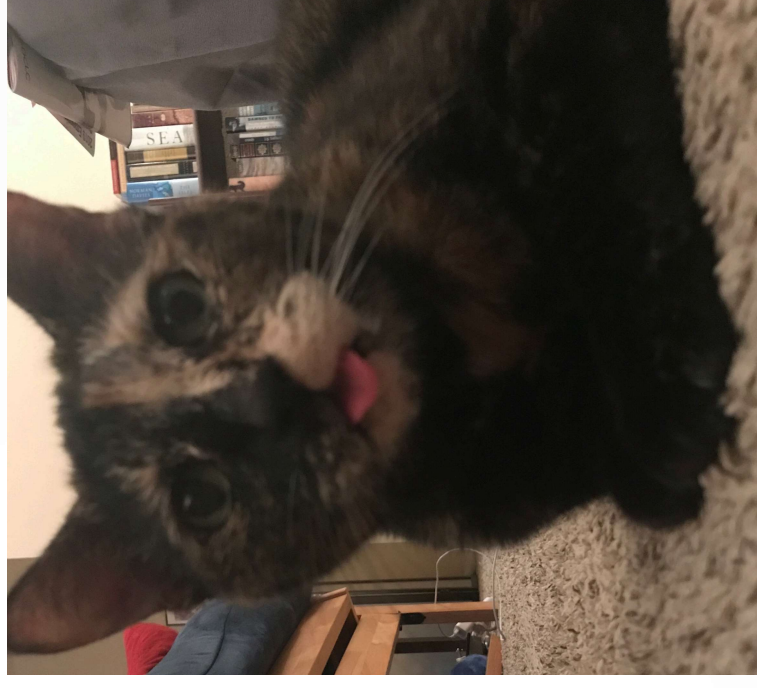
Ideas, Activity, Discussion



Ideas



- ▶ Use for training new staff
- ▶ Use to “flip” classrooms
- ▶ Use to integrate in classrooms when professor does not have class time to spare for library instruction
- ▶ Use for workshops
- ▶ Use to teach digital literacy



Takeaways



- ▶ You can keep it simple
- ▶ It opens up new opportunities for the delivery of instruction
- ▶ Can be used to gather statistics and assessments
- ▶ Powerful tool to reach 100s of students

Breakout Room Brainstorm

- ▶ Take 5 minutes to think and discuss:
 - ▶ How you might use this tool at your institution...
 - ▶ Are you already doing something similar? If so, what are you doing...
- ▶ Talk about this in your breakout room and then we will share with each other in the main room.



Thank you!

Contact me:
megan.toups@slu.edu

