

Table 1: Comparing Pretest/Posttest scores by format

Mean score (scale 0.0-1.0)	Face-to-face (n=19)	Online (n=8)	Both (n=4)*	Total (n=31)	Significance (2-tailed) (p<.05)
Pretest	.3263	.2250	.4500	.3222	.261
Posttest	.4211	.4000	.4500	.3771	.808

*Note: this figure is not reflected in the significance but is listed for reference.

Table 2: Comparing Percentage of Correct Responses on the Posttest

Posttest Question	Face-to-face (n=19)	Online (n=8)	Both (n=4)*	Significance (2-tailed) (p<.05)
OneSearch	36% (n=7)	50% (n=4)	75% (n=3)	.543
Keyword vs. Subject searching	32% (n=6)	50% (n=4)	25% (n=1)	.242
Peer review	84% (n=16)	75% (n=6)	75% (n=3)	.959
Identify scholarly journals	32% (n=6)	12.5% (n=1)	25% (n=1)	.723
Searching article citations	26% (n=5)	12.5% (n=1)	25% (n=1)	.330

*Note: this figure is not reflected in the significance but is listed for reference.

Table 3: One-way ANOVA – Pretest/Posttest scores

Scores between groups	Significance (p<.05)
Pretest score	.273
Posttest score	.925

Table 4: Examining Learning Format Preferences Using a Likert-type Scale (1= Strongly Disagree, 5=Strongly Agree)

Statements	Mean pretest score	Mean posttest score	Significance (2-tailed) (p<.05)
When I need to learn a concept or skill, I use videos to help me learn.	3.58	3.65	.645
I prefer online instruction to face-to-face instruction.	2.61	2.65	.879
I can learn as much online as I learn in face-to-face interactions.	2.84	2.94	.374
I find that instructional videos or tutorials from my instructors or librarians are informative, useful, and helpful.	4.03	3.84	.056
I prefer working in teams or groups over working independently.	2.58	2.77	.110

Table 5: Examining Library Perceptions Using a Likert-type Scale (1= Strongly Disagree, 5=Strongly Agree)

Pretest/Posttest statements	Mean pretest score	Mean posttest score	Significance (2-tailed) (p<.05)
The library provides helpful resources for my research.	4.45	4.61	.134
The librarians and library staff are available to assist me with my research and class assignments.	4.19	4.55	.000
The library website provides links to databases and journals I can use for my research.	4.45	4.74	.005
I can access the articles I need for research through the library.	4.31	4.72	.003
The library is/will be the first place I go when starting my research.	3.58	4.42	.000

Table 6: Further Examining Pretest Library Perception Statements by Instruction Format

Pretest Statements		Sum of Squares	df	Mean Square	F	Significance (p<.05).
The librarians and library staff are available to assist me with my research and class assignments.	Between Groups	2.056	2	1.028	2.669	.087
	Within Groups	10.783	28	.385		
	Total	12.839	30			
The library website provides links to databases and journals I can use for my research.	Between Groups	1.316	2	.658	1.777	.188
	Within Groups	10.362	28	.370		
	Total	11.677	30			
I can access the articles I need for research through the library.	Between Groups	.931	2	.465	1.070	.357
	Within Groups	11.736	27	.435		
	Total	12.667	29			
The library is the first place I go when starting my research.	Between Groups	10.397	2	5.199	4.993	.014
	Within Groups	29.151	28	1.041		
	Total	39.548	30			

Table 7: Further Examining Pretest Library Perception Statements by Instruction Format

Posttest Statements		Sum of Squares	df	Mean Square	F	Significance (p<.05).
The librarians and library staff are available to assist me with my research and class assignments.	Between Groups	.421	2	.210	.636	.537
	Within Groups	9.257	28	.331		
	Total	9.677	30			
The library website provides links to databases and journals I can use for my research.	Between Groups	.001	2	.001	.003	.997
	Within Groups	5.934	28	.212		
	Total	5.935	30			
I can access the articles I need for research through the library.	Between Groups	.242	2	.121	.580	.567
	Within Groups	5.625	27	.208		
	Total	5.867	29			
The library will be the first place I go when starting my research.	Between Groups	.312	2	.156	.472	.629
	Within Groups	9.237	28	.330		
	Total	9.548	30			

Table 8: Post-hoc tests, The library is the first place I go when starting my research, using Bonferroni

The library is the first place I go when starting my research.	Instructional format		Mean Difference in formats	Significance (p<.05)
Pretest	face-to-face	online	1.22	.026
		both	-.41	1.000
	online	face-to-face	-1.22	.026
		both	-1.63	.044
	both	face-to-face	.41	1.00
		online	1.63	.044
Posttest	face-to-face	online	.22	1.000
		both	-.03	1.000
	online	face-to-face	-.22	1.000
		both	-.25	1.000
	both	face-to-face	.03	1.000
		online	.25	1.000