NSSE 2021 Topical Module Report

Experiences with Information Literacy
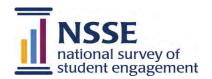
Tennessee Technological University

Developed in collaboration with college and university librarians, this module asks students about their use of information and how much their instructors emphasized the proper use of information sources. This module complements questions on the core survey about higher-order learning and how much writing students do.

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NSSE 2021 Experiences with Information Literacy

Frequencies and Statistical Comparisons
Tennessee Technological University

First-Year Students

Item wording or description	Variable name	Values[c]	Response options	Frequency Distributions[a] Tennessee Tech Count	%	Information Literacy Count	%	Statistical Comparisons[b] Tennessee Tech Mean	Information Literacy Mean	Effect size[d]
1. During the current school year, about how often have you done the following?										
a. Completed an assignment that used an information source (book, article, website, etc.) other than required course readings	INL01a *(Comparison data are limited to NSSE 2020.)*	1	Never	26	7	197	3			
		2	Sometimes	112	31	1,366	25			
		3	Often	127	36	2,321	39	2.8	3.0 *** ▽	-.26
		4	Very often	96	26	2,019	33			
			Total	361	100	5,903	100			
b. Worked on a paper or project that had multiple smaller assignments such as an outline, annotated bibliography, rough draft, etc.	INL01b *(Comparison data are limited to NSSE 2020.)*	1	Never	53	15	261	6			
		2	Sometimes	127	35	1,475	27			
		3	Often	119	34	2,337	39	2.5	2.9 *** ▼	-.42
		4	Very often	62	17	1,827	29			
			Total	361	100	5,900	100			
c. Received feedback from an instructor that improved your use of information resources (source selection, proper citation, etc.)	INL01c *(Comparison data are limited to NSSE 2020.)*	1	Never	40	11	306	6			
		2	Sometimes	117	33	1,551	28			
		3	Often	123	33	2,483	41	2.7	2.8 ** ▽	-.18
		4	Very often	81	23	1,555	24			
			Total	361	100	5,895	100			
d. Completed an assignment that used the library's electronic collection of articles, books, and journals (JSTOR, EBSCO, LexisNexis, ProQuest, etc.)	INL01d *(Comparison data are limited to NSSE 2020.)*	1	Never	142	40	1,091	20			
		2	Sometimes	127	35	1,945	34			
		3	Often	58	16	1,707	28	1.9	2.4 *** ▼	-.49
		4	Very often	34	9	1,154	18			
			Total	361	100	5,897	100			
e. Decided not to use an information source in a course assignment due to its questionable quality	INL01e *(Comparison data are limited to NSSE 2020.)*	1	Never	127	35	1,599	28			
		2	Sometimes	150	42	2,352	41			
		3	Often	59	16	1,395	23	1.9	2.1 *** ▽	-.21
		4	Very often	25	7	543	9			
			Total	361	100	5,889	100			
f. Changed the focus of a paper or project based on information you found while researching the topic	INL01f *(Comparison data are limited to NSSE 2020.)*	1	Never	90	25	899	17			
		2	Sometimes	158	44	2,458	42			
		3	Often	78	22	1,830	29	2.2	2.3 *** ▽	-.21
		4	Very often	34	10	702	11			
			Total	360	100	5,889	100			
g. Looked for a reference that was cited in something you read	INL01g *(Comparison data are limited to NSSE 2020.)*	1	Never	78	21	929	16			
		2	Sometimes	140	39	2,131	37			
		3	Often	99	28	1,973	33	2.3	2.4 ** ▽	-.14
		4	Very often	44	12	856	14			
			Total	361	100	5,889	100			
h. Identified how a book, article, or creative work has contributed to a field of study	INL01h *(Comparison data are limited to NSSE 2020.)*	1	Never	100	27	1,021	18			
		2	Sometimes	147	41	2,199	38			
		3	Often	73	20	1,888	31	2.1	2.4 *** ▽	-.25
		4	Very often	39	11	780	13			
			Total	359	100	5,888	100			
i. Considered the credibility of an information source	INL01i *(Comparison data are limited to NSSE 2020.)*	1	Never	36	10	286	5			
		2	Sometimes	122	34	1,611	28			
		3	Often	132	37	2,442	40	2.7	2.9 *** ▽	-.26
		4	Very often	69	19	1,541	26			
			Total	359	100	5,880	100			

NSSE 2021 Experiences with Information Literacy
Frequencies and Statistical Comparisons
Tennessee Technological University

First-Year Students

| | | | | Frequency Distributions[a] | | | | Statistical Comparisons[b] | | |
| | | | | Tennessee Tech | | Information Literacy | | Tennessee Tech | Information Literacy | |
Item wording or description	Variable name	Values[c]	Response options	Count	%	Count	%	Mean	Mean	Effect size[d]
j. Verified an information source by comparing it to other sources (Comparison data are limited to NSSE 2020.)	INL01j	1	Never	56	15	640	11	2.5	2.6 ** ▽	-.16
		2	Sometimes	133	38	1,934	34			
		3	Often	112	31	2,194	36			
		4	Very often	56	16	1,096	19			
			Total	357	100	5,864	100			
k. Identified information that was biased, misleading, or deceptive (Comparison data are limited to NSSE 2020.)	INL01k	1	Never	60	17	618	10	2.4	2.6 *** ▽	-.22
		2	Sometimes	150	42	2,193	38			
		3	Often	101	28	2,058	34			
		4	Very often	47	13	1,001	17			
			Total	358	100	5,870	100			
l. Used information you found on social media in a paper or project (Comparison data are limited to NSSE 2020.)	INL01l	1	Never	224	63	2,927	51	1.6	1.8 *** ▽	-.24
		2	Sometimes	84	23	1,538	26			
		3	Often	31	9	977	16			
		4	Very often	20	5	432	7			
			Total	359	100	5,874	100			
m. Combined information found on social media with other sources (Comparison data are limited to NSSE 2020.)	INL01m	1	Never	208	58	2,685	47	1.6	1.9 *** ▽	-.23
		2	Sometimes	93	26	1,633	28			
		3	Often	37	10	1,117	18			
		4	Very often	22	6	440	7			
			Total	360	100	5,875	100			

2. During the current school year, how much have your instructors emphasized the following?

				Count	%	Count	%	Mean	Mean	Effect size
a. Not plagiarizing another author's work (Comparison data are limited to NSSE 2020.)	INL02a	1	Very little	9	3	130	2	3.5	3.5	-.04
		2	Some	29	8	486	8			
		3	Quite a bit	85	24	1,268	21			
		4	Very much	237	65	3,990	68			
			Total	360	100	5,874	100			
b. Appropriately citing the sources used in a paper or project (Comparison data are limited to NSSE 2020.)	INL02b	1	Very little	9	3	106	2	3.3	3.5 *** ▽	-.21
		2	Some	55	15	548	10			
		3	Quite a bit	106	32	1,570	27			
		4	Very much	189	51	3,643	61			
			Total	359	100	5,867	100			
c. Using scholarly or peer-reviewed sources in your course assignments (Comparison data are limited to NSSE 2020.)	INL02c	1	Very little	31	8	203	4	3.0	3.3 *** ▼	-.31
		2	Some	71	20	756	14			
		3	Quite a bit	103	29	1,719	30			
		4	Very much	154	42	3,185	53			
			Total	359	100	5,863	100			
d. Questioning the quality of information sources (Comparison data are limited to NSSE 2020.)	INL02d	1	Very little	35	10	278	5	2.9	3.1 *** ▼	-.30
		2	Some	96	27	1,165	20			
		3	Quite a bit	104	30	1,825	31			
		4	Very much	123	33	2,602	44			
			Total	358	100	5,870	100			
e. Using practices (terminology, methods, writing style, etc.) of a specific major or field of study (Comparison data are limited to NSSE 2020.)	INL02e	1	Very little	42	11	380	7	2.8	3.0 *** ▽	-.20
		2	Some	98	27	1,325	23			
		3	Quite a bit	99	29	1,889	32			
		4	Very much	121	33	2,272	38			
			Total	360	100	5,866	100			

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to the endnotes page for the key to triangle symbols.

NSSE 2021 Experiences with Information Literacy

Frequencies and Statistical Comparisons
Tennessee Technological University

First-Year Students

Item wording or description	Variable name	Values[c]	Response options	Frequency Distributions[a]				Statistical Comparisons[b]		
				Tennessee Tech		Information Literacy		Tennessee Tech	Information Literacy	
				Count	%	Count	%	Mean	Mean	Effect size[d]
3. How much has your experience at this institution contributed to your knowledge, skills, and personal development in the following areas?										
a. Using information effectively	INL03a	1	Very little	20	6	126	3			
		2	Some	82	23	1,155	20			
	(Comparison data are limited to NSSE 2020.)	3	Quite a bit	153	42	2,575	43	**2.9**	3.1 **	-.18
		4	Very much	104	29	2,011	34		▽	
			Total	359	100	5,867	100			
b. Recognizing biased, misleading, or deceptive information	INL03b	1	Very little	36	11	397	7			
		2	Some	110	31	1,572	27			
	(Comparison data are limited to NSSE 2020.)	3	Quite a bit	123	34	2,227	38	**2.7**	2.9 *	-.14
		4	Very much	90	25	1,665	28		▽	
			Total	359	100	5,861	100			
c. Evaluating the credibility of your information sources	INL03c	1	Very little	28	8	274	5			
		2	Some	93	27	1,391	24			
	(Comparison data are limited to NSSE 2020.)	3	Quite a bit	136	38	2,256	38	**2.8**	3.0 **	-.15
		4	Very much	101	27	1,950	33		▽	
			Total	358	100	5,871	100			

NSSE 2021 Experiences with Information Literacy

Frequencies and Statistical Comparisons
Tennessee Technological University

Seniors

Item wording or description	Variable name	Values [c]	Response options	Frequency Distributions [a]				Statistical Comparisons [b]		
				Tennessee Tech		Information Literacy		Tennessee Tech	Information Literacy	
				Count	%	Count	%	Mean	Mean	Effect size [d]
1. During the current school year, about how often have you done the following?										
a. Completed an assignment that used an information source (book, article, website, etc.) other than required course readings	INL01a *(Comparison data are limited to NSSE 2020.)*	1	Never	19	4	221	3	3.1	3.2 * ▽	-.09
		2	Sometimes	89	20	1,415	19			
		3	Often	173	38	2,411	33			
		4	Very often	182	39	3,544	45			
			Total	463	100	7,591	100			
b. Worked on a paper or project that had multiple smaller assignments such as an outline, annotated bibliography, rough draft, etc.	INL01b *(Comparison data are limited to NSSE 2020.)*	1	Never	55	13	574	9	2.7	2.9 *** ▽	-.23
		2	Sometimes	151	32	1,930	26			
		3	Often	144	31	2,468	32			
		4	Very often	114	25	2,617	33			
			Total	464	100	7,589	100			
c. Received feedback from an instructor that improved your use of information resources (source selection, proper citation, etc.)	INL01c *(Comparison data are limited to NSSE 2020.)*	1	Never	55	13	668	10	2.7	2.8	-.05
		2	Sometimes	134	28	2,184	29			
		3	Often	151	33	2,599	34			
		4	Very often	122	26	2,125	27			
			Total	462	100	7,576	100			
d. Completed an assignment that used the library's electronic collection of articles, books, and journals (JSTOR, EBSCO, LexisNexis, ProQuest, etc.)	INL01d *(Comparison data are limited to NSSE 2020.)*	1	Never	148	32	1,144	17	2.2	2.7 *** ▼	-.43
		2	Sometimes	137	29	1,924	26			
		3	Often	89	19	2,012	26			
		4	Very often	90	19	2,516	31			
			Total	464	100	7,596	100			
e. Decided not to use an information source in a course assignment due to its questionable quality	INL01e *(Comparison data are limited to NSSE 2020.)*	1	Never	141	30	2,198	29	2.1	2.1	-.03
		2	Sometimes	176	38	2,886	39			
		3	Often	101	22	1,610	21			
		4	Very often	46	10	882	11			
			Total	464	100	7,576	100			
f. Changed the focus of a paper or project based on information you found while researching the topic	INL01f *(Comparison data are limited to NSSE 2020.)*	1	Never	110	24	1,256	18	2.2	2.4 *** ▽	-.18
		2	Sometimes	193	42	3,186	42			
		3	Often	113	24	2,084	27			
		4	Very often	45	10	1,044	13			
			Total	461	100	7,570	100			
g. Looked for a reference that was cited in something you read	INL01g *(Comparison data are limited to NSSE 2020.)*	1	Never	85	18	949	13	2.4	2.6 *** ▽	-.19
		2	Sometimes	174	38	2,548	34			
		3	Often	134	29	2,421	32			
		4	Very often	68	15	1,649	20			
			Total	461	100	7,567	100			
h. Identified how a book, article, or creative work has contributed to a field of study	INL01h *(Comparison data are limited to NSSE 2020.)*	1	Never	108	23	1,256	18	2.3	2.5 ** ▽	-.14
		2	Sometimes	162	36	2,647	35			
		3	Often	129	28	2,304	30			
		4	Very often	63	14	1,355	17			
			Total	462	100	7,562	100			
i. Considered the credibility of an information source	INL01i *(Comparison data are limited to NSSE 2020.)*	1	Never	44	9	505	7	2.8	2.9 ** ▽	-.15
		2	Sometimes	137	30	1,933	26			
		3	Often	163	36	2,744	36			
		4	Very often	117	25	2,380	30			
			Total	461	100	7,562	100			

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to the endnotes page for the key to triangle symbols.

NSSE 2021 Experiences with Information Literacy

Frequencies and Statistical Comparisons
Tennessee Technological University

Seniors

				Frequency Distributions[a]				Statistical Comparisons[b]		
				Tennessee Tech		Information Literacy		Tennessee Tech	Information Literacy	
Item wording or description	Variable name	Values[c]	Response options	Count	%	Count	%	Mean	Mean	Effect size[d]
j. Verified an information source by comparing it to other sources	INL01j	1	Never	73	16	845	12			
		2	Sometimes	143	31	2,327	30			
(Comparison data are limited to NSSE 2020.)		3	Often	158	34	2,616	35	2.6	2.7 * ▽	-.11
		4	Very often	88	19	1,754	22			
			Total	462	100	7,542	100			
k. Identified information that was biased, misleading, or deceptive	INL01k	1	Never	87	19	980	14			
		2	Sometimes	178	39	2,903	39			
(Comparison data are limited to NSSE 2020.)		3	Often	120	26	2,237	30	2.4	2.5 ** ▽	-.12
		4	Very often	76	17	1,425	18			
			Total	461	100	7,545	100			
l. Used information you found on social media in a paper or project	INL01l	1	Never	321	69	4,200	56			
		2	Sometimes	73	16	1,903	25			
(Comparison data are limited to NSSE 2020.)		3	Often	42	9	924	12	1.5	1.7 *** ▽	-.19
		4	Very often	27	6	523	7			
			Total	463	100	7,550	100			
m. Combined information found on social media with other sources	INL01m	1	Never	298	64	3,791	51			
		2	Sometimes	78	17	2,084	27			
(Comparison data are limited to NSSE 2020.)		3	Often	54	12	1,083	14	1.6	1.8 *** ▽	-.17
		4	Very often	33	7	590	8			
			Total	463	100	7,548	100			

2. During the current school year, how much have your instructors emphasized the following?

				Frequency Distributions				Tennessee Tech	Information Literacy	
a. Not plagiarizing another author's work	INL02a	1	Very little	23	5	255	4			
		2	Some	50	12	712	10			
(Comparison data are limited to NSSE 2020.)		3	Quite a bit	121	26	1,649	22	3.3	3.5 ** ▽	-.14
		4	Very much	268	57	4,931	64			
			Total	462	100	7,547	100			
b. Appropriately citing the sources used in a paper or project	INL02b	1	Very little	27	6	273	4			
		2	Some	57	13	764	11			
(Comparison data are limited to NSSE 2020.)		3	Quite a bit	128	29	1,852	25	3.3	3.4 ** ▽	-.15
		4	Very much	251	52	4,660	59			
			Total	463	100	7,549	100			
c. Using scholarly or peer-reviewed sources in your course assignments	INL02c	1	Very little	33	7	424	7			
		2	Some	77	17	857	13			
(Comparison data are limited to NSSE 2020.)		3	Quite a bit	118	26	1,787	24	3.2	3.3 ** ▽	-.13
		4	Very much	234	49	4,476	56			
			Total	462	100	7,544	100			
d. Questioning the quality of information sources	INL02d	1	Very little	45	10	640	9			
		2	Some	115	26	1,542	21			
(Comparison data are limited to NSSE 2020.)		3	Quite a bit	139	30	2,082	28	2.9	3.0 ** ▽	-.13
		4	Very much	161	34	3,272	41			
			Total	460	100	7,536	100			
e. Using practices (terminology, methods, writing style, etc.) of a specific major or field of study	INL02e	1	Very little	34	8	419	6			
		2	Some	87	19	1,247	17			
(Comparison data are limited to NSSE 2020.)		3	Quite a bit	149	33	2,267	31	3.1	3.2 * ▽	-.11
		4	Very much	193	41	3,607	46			
			Total	463	100	7,540	100			

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to the endnotes page for the key to triangle symbols.

NSSE 2021 Experiences with Information Literacy
Frequencies and Statistical Comparisons
Tennessee Technological University

Seniors

| | | | | Frequency Distributions[a] | | | | Statistical Comparisons[b] | | |
| | | | | Tennessee Tech | | Information Literacy | | Tennessee Tech | Information Literacy | |
Item wording or description	Variable name	Values[c]	Response options	Count	%	Count	%	Mean	Mean	Effect size[d]
3. How much has your experience at this institution contributed to your knowledge, skills, and personal development in the following areas?										
a. Using information effectively	INL03a	1	Very little	10	2	145	2			
		2	Some	62	14	1,004	14			
(Comparison data are limited to NSSE 2020.)		3	Quite a bit	206	44	2,908	38	**3.2**	3.3	-.07
		4	Very much	184	39	3,476	45			
			Total	462	100	7,533	100			
b. Recognizing biased, misleading, or deceptive information	INL03b	1	Very little	40	9	444	6			
		2	Some	110	23	1,807	25			
(Comparison data are limited to NSSE 2020.)		3	Quite a bit	177	39	2,640	35	**2.9**	3.0 * ▽	-.10
		4	Very much	135	29	2,640	34			
			Total	462	100	7,531	100			
c. Evaluating the credibility of your information sources	INL03c	1	Very little	30	7	372	6			
		2	Some	95	21	1,482	21			
(Comparison data are limited to NSSE 2020.)		3	Quite a bit	188	41	2,688	36	**3.0**	3.1 * ▽	-.10
		4	Very much	150	32	2,985	38			
			Total	463	100	7,527	100			

*p<.05, **p<.01, ***p<.001 (2-tailed); Refer to the endnotes page for the key to triangle symbols.

First-Year Students

Variable name	N	Mean		Standard error[f]		Standard deviation[g]		DF[h]	Sig.[i]	Effect size[d]
	Tennessee Tech	Tennessee Tech	Information Literacy	Tennessee Tech	Information Literacy	Tennessee Tech	Information Literacy	Comparisons with: Information Literacy		
INL01a	360	2.80	3.01	.048	.012	0.91	0.84	403	.000	-.26
INL01b	360	2.53	2.90	.050	.012	0.94	0.88	404	.000	-.42
INL01c	360	2.68	2.84	.050	.012	0.95	0.86	401	.003	-.18
INL01d	360	1.95	2.43	.051	.014	0.96	1.00	416	.000	-.49
INL01e	360	1.94	2.13	.046	.013	0.88	0.92	415	.000	-.21
INL01f	359	2.16	2.35	.048	.013	0.91	0.90	5,454	.000	-.21
INL01g	360	2.31	2.44	.049	.013	0.94	0.92	5,456	.009	-.14
INL01h	358	2.15	2.37	.050	.013	0.94	0.93	5,453	.000	-.25
INL01i	357	2.65	2.87	.047	.012	0.89	0.86	404	.000	-.26
INL01j	355	2.47	2.62	.050	.013	0.93	0.91	5,426	.003	-.16
INL01k	356	2.38	2.58	.048	.013	0.91	0.89	5,432	.000	-.22
INL01l	358	1.57	1.79	.045	.013	0.86	0.95	421	.000	-.24
INL01m	358	1.64	1.86	.047	.013	0.89	0.96	418	.000	-.23
INL02a	358	3.52	3.55	.040	.011	0.76	0.75	5,442	.455	-.04
INL02b	357	3.30	3.47	.043	.011	0.82	0.76	400	.000	-.21
INL02c	357	3.05	3.31	.052	.012	0.98	0.85	395	.000	-.31
INL02d	356	2.85	3.13	.053	.013	1.00	0.91	398	.000	-.30
INL02e	358	2.83	3.02	.053	.013	1.01	0.94	402	.001	-.20
INL03a	357	2.94	3.08	.046	.011	0.87	0.80	5,433	.001	-.18
INL03b	357	2.73	2.86	.051	.013	0.96	0.91	403	.012	-.14
INL03c	357	2.84	2.97	.049	.012	0.92	0.89	403	.008	-.15

NSSE 2021 Experiences with Information Literacy
Detailed Statistics[e]
Tennessee Technological University

Seniors

	N	Mean		Standard error[f]		Standard deviation[g]		DF[h]	Sig.[i]	Effect size[d]
Variable name	Tennessee Tech	Tennessee Tech	Information Literacy	Tennessee Tech	Information Literacy	Tennessee Tech	Information Literacy	Comparisons with: Information Literacy		
INL01a	463	3.11	3.19	.040	.009	0.86	0.86	8,644	.047	-.09
INL01b	464	2.67	2.89	.046	.011	0.98	0.96	515	.000	-.23
INL01c	462	2.73	2.78	.046	.011	0.99	0.95	8,624	.317	-.05
INL01d	464	2.25	2.71	.051	.012	1.10	1.07	8,645	.000	-.43
INL01e	464	2.11	2.14	.044	.011	0.95	0.96	8,617	.532	-.03
INL01f	462	2.19	2.35	.042	.010	0.91	0.91	8,608	.000	-.18
INL01g	461	2.41	2.59	.044	.011	0.95	0.96	8,606	.000	-.19
INL01h	462	2.33	2.46	.045	.011	0.97	0.98	8,598	.004	-.14
INL01i	461	2.76	2.90	.043	.010	0.93	0.92	8,601	.002	-.15
INL01j	462	2.57	2.67	.045	.011	0.97	0.95	8,568	.021	-.11
INL01k	461	2.41	2.53	.045	.010	0.98	0.94	8,583	.009	-.12
INL01l	463	1.51	1.69	.041	.010	0.88	0.93	523	.000	-.19
INL01m	463	1.62	1.78	.044	.011	0.95	0.95	8,593	.000	-.17
INL02a	462	3.35	3.46	.041	.009	0.88	0.82	508	.006	-.14
INL02b	463	3.27	3.39	.042	.009	0.91	0.85	510	.004	-.15
INL02c	462	3.17	3.30	.045	.010	0.96	0.94	8,581	.005	-.13
INL02d	460	2.88	3.01	.046	.011	0.99	1.00	8,573	.007	-.13
INL02e	463	3.07	3.17	.044	.010	0.95	0.92	8,584	.019	-.11
INL03a	462	3.21	3.27	.036	.009	0.76	0.78	518	.116	-.07
INL03b	462	2.87	2.96	.043	.010	0.93	0.92	8,577	.044	-.10
INL03c	463	2.98	3.06	.042	.010	0.89	0.90	8,571	.046	-.10

See the endnotes on the last page of this report.

Endnotes

a. Column percentages are weighted by institution-reported sex and enrollment status (and institution size for comparison groups). Percentages may not sum to 100 due to rounding. Counts are unweighted; column percentages cannot be replicated from counts. Comparison group details are in the *Selected Comparison Groups* report, linked in the Data & Reports table on the Institution Interface.

b. All statistics are weighted by institution-reported sex and enrollment status (and institution size for comparison groups). Unless otherwise noted, statistical comparisons are two-tailed independent t-tests. Items with categorical response sets are left blank.

c. These are the values used to calculate means. For the majority of items, these values match the codes in the data file and codebook.

d. Effect size for independent t-tests uses Cohen's d; z-tests use Cohen's h.

e. Statistics are weighted by institution-reported sex and enrollment status (and institution size for comparison groups). Categorical items are not listed.

f. The 95% confidence interval for the population mean is equal to the sample mean plus or minus 1.96 times the standard error of the mean.

g. A measure of the amount individual scores deviate from the mean of all the scores in the distribution.

h. Degrees of freedom used to compute the t-tests. Values differ from Ns due to weighting and whether equal variances were assumed.

i. Statistical comparisons are two-tailed independent t-tests or z-tests. Statistical significance represents the probability that the difference between your students' mean and that of the students in the comparison group is due to chance.

j. Statistical comparison uses z-test to compare the proportion who responded (depending on the item) "Done or in progress" or "Yes" with all who responded otherwise.

k. Mean represents the proportion who responded (depending on the item) "Done or in progress" or "Yes."

Key to symbols:

▲ **Your students' average** was significantly higher (p < .05) with an effect size at least .3 in magnitude.

△ **Your students' average** was significantly higher (p < .05) with an effect size less than .3 in magnitude.

▽ **Your students' average** was significantly lower (p < .05) with an effect size less than .3 in magnitude.

▼ **Your students' average** was significantly lower (p < .05) with an effect size at least .3 in magnitude.

Note: It is important to interpret the direction of differences relative to item wording and your institutional context.