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1

Conflict of Interest Disclosure Statement

This study is supported in part by a grant from Southern Adventist University, Collegedale, Tennessee

The presenter is an employee of Southern Adventist University, Collegedale, Tennessee



2

Workshop Objectives

- Explore various classroom assessment techniques that engage learners and provide educators with feedback
- Collaborate with peers to apply CATs to the classroom
- Experience the 1 Minute Paper (OMP) and 5 Minute Peer Writing Activity (5MPWA)
- Apply the 5 Minute Peer Writing Activity to classroom
- Understand evidence behind the 5MPWA
- Explore applications for the 5MPWA



3

What are CATs?

- Classroom assessment techniques (CATs) are quick, low-stakes strategies to evaluate student knowledge, understanding, preparation, and engagement.
- CATs provide valuable feedback to educators on where learners are and allow for modifications to enhance the learning process.



4

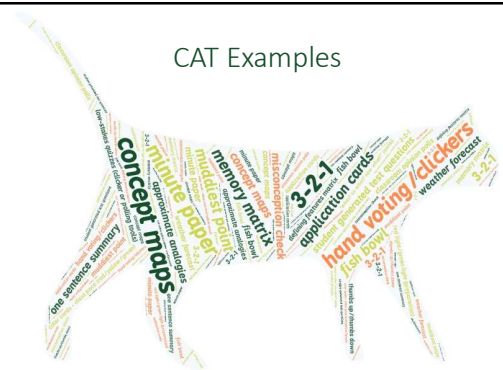
CAT Resources

- Angelo, T. A., Cross, K. P. (1993). Classroom assessment techniques: A handbook for college teachers (second ed.). San Francisco: Jossey-Bass.
- <https://www.colorado.edu/center/teaching-learning/teaching-resources/assessment/assessing-student-learning/classroom-assessment-techniques>
- https://cft.unc.edu/sites/default/files/instructor_resources/evaluation/CATS.pdf
- <https://cft.vanderbilt.edu/guides-sub-pages/cats/>
- <https://www.celt.iastate.edu/instructional-strategies/evaluating-teaching/classroom-assessment-techniques-guiding-strategies-to-check-student-learning-in-class/>
- <https://c2t.columbia.edu/resources-and-technology/resources/assess-a-class/active-learning/>
- <https://poorvcenter.alea.edu/Classroom-Assessment-Techniques>
- <http://archive.wcurw.org/CJL/?tag/default.htm>



5

CAT Examples



6

Do your CATs PERR?

- Are your CATs:
 - Practical?
 - Engaging?
 - Reflective?
 - Research-based?



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7

1 MINUTE PAPER VERSUS 5 MINUTE PEER WRITING ACTIVITY

THE ORIGINAL VERSUS THE NEW



8

1 Minute Paper Instructions

- Turn to page 2 of the 5 Minute Peer Writing Activity booklet.
- You will have 1 minute to list 5 classroom assessment techniques and provide a brief example for each technique.
- Grade activity out of 10 (1 point for each technique and example)



9

5 Minute Peer Writing Activity Instructions

- Turn to page 3 of the 5 Minute Peer Writing Activity booklet.
- You will have 1 minute to list 5 classroom assessment techniques and provide a brief example for each technique.
- Swap with a neighbor.
- You will have 1 minute to review and add to the neighbor's response
- Swap and repeat (1 minute)
- Receive your original booklet.
- You will have 2 minutes to review all feedback and summarize.
- Grade activity out of 10



10

What is the 5 Minute Peer Writing Activity?

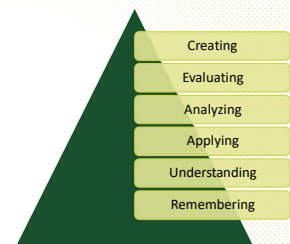
ORIGINS



11

Origins

- Developed Winter 2022
- Measures both lower (remembering/understanding) and upper (applying/analyzing/evaluating) levels of Bloom's taxonomy
- Incorporates peer feedback and synthesis
- Students self-grade



12

PHASE I STUDY RESULTS

RESULTS FROM TWO FUNDAMENTALS OF NURSING COHORTS



13

Methodology – Data Collection

- IRB approval received 8/11/2022
- Procedure -
 - Toward the end of a class period on communication (9/6/22 & 9/8/22; 1/19/23), students completed a 1 minute paper (list 5 therapeutic communication techniques and provide an example for each).
 - On completion, students graded (out of 10 points), turned in the paper, and completed a survey.
 - Next, students completed the 5 minute peer writing activity (same instructions), self-graded, and completed a survey.
 - Students received 10 extra credit points for participating in activity

1. What is your name?

2. During this activity I was:

3. Rate your satisfaction with this activity:



14

Methodology – Variables

- Variables
 - 1 minute paper score (0-10) (verified/updated by professor)
 - 5MPWA score (0-10) (verified/updated by professor)
 - 1 minute paper engagement score (5-point Likert-type scale)
 - 5MPWA engagement score (5-point Likert-type scale)
 - 1 minute paper satisfaction score (5-point Likert-type scale)
 - 5MPWA satisfaction score (5-point Likert-type scale)

1. What is your name?

2. During this activity I was:

3. Rate your satisfaction with this activity:



15

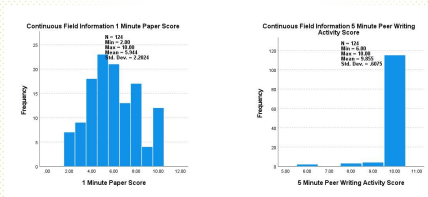
Data Analysis

- SPSS version 28
- Fall 2022 (n = 69)
- Winter 2023 (n = 63)
- 8 responses removed from Winter 2023 cohort (students repeating course participated in activity during Fall 2022)
- 4 students did not complete 5MPWA evaluation (SurveyMonkey)
- Related Samples Sign Test statistically significant difference in medians



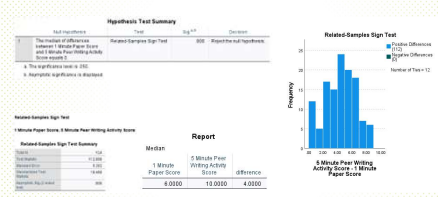
16

Activity Grade/Score



17

RQ1 –Difference Between 1MP & 5MPWA Grade



18

Activity Interest/Engagement Level

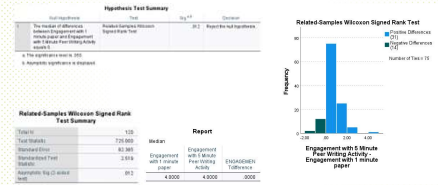
1 Minute Paper

5 Minute Peer Writing Activity



19

RQ2 –Difference Between 1MP & 5MPWA Engagement

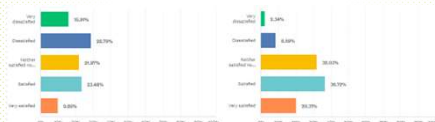


20

Activity Satisfaction Level

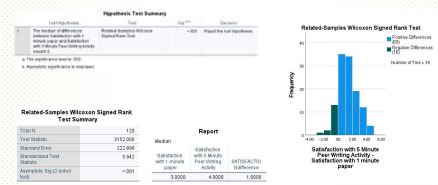
1 Minute Paper

5 Minute Peer Writing Activity



21

RQ3 –Difference Between 1MP & 5MPWA Satisfaction



22

Descriptive Statistics

		Statistics					
		1 Minute Paper Score	Engagement with 1 minute paper	Satisfaction with 1 minute paper	5 Minute Peer Writing Activity Score	Engagement with 5 Minute Peer Writing Activity	Satisfaction with 5 Minute Peer Writing Activity
N	Valid	69	69	69	69	64	64
	Missing	0	1	1	0	0	0
Mean		5.1304	4.0735	2.7353	9.7351	4.3564	3.6688
Median		5.0000	4.0000	3.0000	10.0000	4.5000	4.0000
Mode		5.00	5.00	2.00	10.00	5.00	4.00
Std. Deviation		1.84719	.91938	1.24130	.79802	.72083	.91589
Variance		3.792	.845	1.541	.637	.520	.866
Skewness		.377	-.801	.187	-.382	-.668	-.666
Std. Error of Skewness		.269	.291	.291	.269	.299	.299
Kurtosis		-.088	.907	-.960	13.492	-.787	1.225
Std. Error of Kurtosis		.570	.574	.574	.570	.590	.590
Range		9.00	4.00	4.00	4.00	2.00	4.00

23

Conclusions

- The 5MPWA encourages peer collaboration, engages learners, and provides feedback for educators
- There was a statistically significant improvement in activity grade and an increase in student engagement and satisfaction with the 5MPWA.



24

Brainstorming and Opportunity to Participate in Phase II of Study

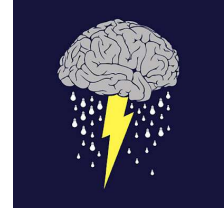
THANK YOU FOR ATTENDING!



25

Brainstorming

- Spend a few minutes brainstorming how you could use the 5-minute peer writing activity in a course you teach.



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26

Opportunity to Participate in Phase II of Study

- You are invited to participate in a study evaluating the effectiveness of the 5 Minute Peer Writing Activity. The survey will take approximately 5 minutes to complete. To view the informed consent and complete the anonymous survey, scan the QR code below or enter the following URL into your browser: <https://www.research.net/r/QR69NTM>



27