

MASTERING THE THREADS: A CONTEXTUALIZED WORKSHEET APPROACH TO TEACHING GARMENTS TECHNOLOGY CONCEPT

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ABSTRACT: *The study was directed to evaluate the effectiveness of contextualized worksheets as instructional material for teaching specific concepts in Garment technology. In particular, the study aims to analyze the evaluation ratings of the contextualized worksheet, the effect of its implementation, and the perception of the respondents towards the contextualized worksheet. Moreover, it also examines the significant difference between the respondents' academic performances when reinforced by the contextualized worksheet. Then, The said material has undergone evaluation and validity by the teacher-experts in terms of the Extent of validity of contextualized worksheet in Garments Technology along with Content, Format, Presentation, Organization, Accuracy and Up-to-datedness of information, Integrity, and learner's focus. The Extent of the acceptability of contextualized worksheets in Garments Technology by the teachers- experts, and students in Content, Organization, Presentation, Appeal to the target users, Usability, and Accessibility. The findings revealed that the extent of validity of contextualized worksheets in Garments technology got a convincing result of a very satisfactory rating validated by Teachers' experts. The Acceptability of Contextualized Worksheets in Garments technology has a very satisfactory rating based on the evaluation sheet rated by the teacher's experts and students. Both the two areas of assessment on contextualizing worksheets were acceptable and commendable with a very satisfactory rating. In terms of the academic performance of the respondents, a significant increase in their scores was noted when supplemental with the contextualized worksheets compared to the old instructional materials. Findings also revealed that the evaluation rating of teacher- experts has no significant difference from the evaluation rating of students. In teaching garments technology concepts, the contextualized worksheet is appropriate to use as instructional material and greatly enhances the student's efficiency.*

Keywords: contextualized, worksheet in Garments technology concepts

I. INTRODUCTION

Learning materials play an essential role as teacher's agents in teaching effectively and efficiently. Teachers must have the ability to develop teaching materials that are varied so that learning will be applied, not monotonous, and tend to be boring for students. Generally, the power of teachers to teach determines students' success [1]. Therefore, educators must be creative in making the innovation of teaching materials to achieve these demands. Worksheets are one of the most commonly used materials. Teachers use worksheets to add information for specific classes, as stated by Lee [2]. Worksheets also invite students to fill out gaps; they are opportunities to build knowledge.

Worksheets have been used for an extended period for learning and teaching. Worksheets have become a driving force in some countries' curricula in the modern era [3]. Teachers use worksheets to support studying, promote active learning, raising interest in learning and assessment. Sasmaz-Oren & Ormanci [4] revealed that many studies suggest that well-designed worksheets have had positive impacts on students' learning achievement.

In the learning of garment technology, the development of worksheets has a vital role to play.

According to Adalikwu *et al* [5], students exposed to instructional materials performed significantly better than students taught without instructional materials. The use of instructional materials such as worksheets increased students' comprehension of concepts and contributed to high academic achievement.

Oladejo *et al* [6] worksheets perform tasks such as expanding learner knowledge, supplementing and adding verbal

explanations to the teacher, enriching the learning experience, and giving the teacher various paths to develop multiple learning activities.

Amidst the pandemic, students' learning continues through different learning materials such as worksheets.

Worksheets serve as an extension of experience and knowledge, which is beneficial to students. Surigao del Sur State University- Cantilan Campus offers Garments Technology as a course. Students are having difficulty studying in their lessons because of insufficient reading materials related to garment technology. As an instructor, we need to address these concerns to provide a quality Teaching-learning Process. Thus, this study aimed to develop a contextualized worksheet for teaching garment concepts to help students in their studies. A worksheet that anyone can access, especially in this new normal setting.

2. METHODOLOGY

The study utilized a "design and development" and quasi-experimental approach. The "design and development" method was utilized aiming to enhance an existing instructional material; a worksheet in particular based on a current model and get a response from expert validators in the substantiating process of the enhanced worksheet in Garments technology in Clothing selection, purchases. Also, in quantifying the effectiveness of the enhanced worksheets, an adopted questionnaire checklist was utilized. Moreover, the instrument utilized in this study is a revised adopted questionnaire from Gumanoy [7] and Dep. Ed LRMS [8] evaluation tool for Printed Materials was used in the acceptability and validity of contextualized worksheets. Generally, the study has undergone three parts. Part I

highlights the extent of validity of contextualized worksheets in Garments technology rated by the teacher's experts. It has Six factors: content, format, presentation, organization, accuracy and up-to-date information, integrity, and learner focus. Part II is the Acceptability of the Contextualized Worksheet in Garment's technology concepts rated by the teacher's experts and students in terms of content, organization, presentation, Appeal to the target Users, usability, and accessibility. Part III was concentrated on measuring the effectiveness of the enhanced worksheet through the respondents' pretest and posttest performance.

3. RESULTS

Table 1: Evaluation rating sheet for the validity of Contextualized worksheets in garments technology.

Indicators	Mean	Description
Factor 1: Content	3.77	Very Satisfactory
Factor 2: Format	3.77	Very Satisfactory
Factor 3: Presentation and Organization	3.76	Very Satisfactory
Factor 4: Accuracy and Up-to-datedness of information	3.52	Very Satisfactory
Factor 5: Integrity	3.87	Very Satisfactory
Factor 6: Learner focus	3.88	Very Satisfactory
Overall Mean	3.76	Very Satisfactory

Table 2: Extent of the acceptability of contextualized worksheet in Garments technology as evaluated by teachers and students in terms of content, organization, presentation, appeal to the target users, usability, and accessibility.

Indicators	Teachers-	Students	Description
	experts		
Content	4.8	4.72	Strongly Agree
Organization	4.74	4.89	Strongly Agree
Presentation	4.88	4.84	Strongly Agree
Appeal to the target Users	4.76	7.88	Strongly Agree
Usability	4.81	4.72	Strongly Agree
Accessibility	4.76	4.76	Strongly Agree
Overall Mean	4.79	4.8	Strongly Agree

Table 3. A significant difference in the acceptability rating of teachers- experts and students to the contextualized worksheets in Garment technology

Evaluation Rating	f-value	p-value	Decision	Interpretation
Teachers- experts	1.093	.403	Accept Null hypothesis	Insignificant
Students				

Table 4: Mean Scores of the Pre-test and Post-test

Existing worksheet in Garments Technology			Enhanced worksheet in Garments Technology				
Pre-test		Pre-test	Post-test		Pre-test		
Mea n	Mea n	SD	Mea n	SD	SD	Mea n	SD
7.09	2.63	9.4	2.98	9.4	1.9	13.4	2.9
		3		2	4	1	3

Table 5: The Significant Difference in the Students' Means Scores

Academic performance	F-value	p- Value	Decision	Conclusion
Control Group (existing worksheet)	0.410	0.02	Reject Null hypothesis	Significant is
Experimental Group (enhance worksheet)				

4. DISCUSSION

The contextualized worksheet was evaluated by the teachers' experts to measure the validity of contextualized worksheets in terms of content, format, presentation, organization, accuracy and up-to-date information, integrity, and learner focus and Acceptability of the Contextualized Worksheet in Garment's technology concepts rated by the teacher's experts and students in terms of content, organization, presentation, Appeal to the target Users, usability, and accessibility. Based on the results in Table 1, showed that the contextualized worksheets in Garments are highly usable, having an overall mean of 3.76, or very satisfactory in teaching Garments Concepts. It could also mean the worksheet can boost the learners' performance in a particular concept.

Table 2 shows the acceptability of the contextualized worksheet. As shown in the data all six factors were interpreted as being strongly in agreement as to the content, organization, presentation, appeal to the target users, usability, and accessibility. In general, the overall mean is calculated as strongly agreeable by the respondents as to the acceptability of contextualized worksheets. The study findings show that the contextualized worksheets in Garments technology concepts are acceptable for utilization. Having a high mark rating from the respondent's evaluation, simply illustrates that the contextualized worksheet is a worthy and commendable Instructional tool.

Table 3 shows the significant difference in the evaluation rating of teachers and students in the acceptability of the developed contextualized worksheets in garments technology concepts. Having a significant value of .403, which is greater than the critical value of 0.05, implies that the hypothesis of no significant difference in the acceptability rating of teachers and students is to be accepted. It means that the two groups of respondents have the same level of evaluation. Further, the result indicates that both evaluators agree that the

contextualized worksheet is acceptable enough in terms of content, format & technical design, presentation & organization, and accuracy and up-to-dateness.

Tables 4 & 5 showed the pretest and posttest mean scores of the respondents. It indicates that there is a significant difference in the achievement of students in Garments Technology. It means that the enhanced worksheet helped the students understand better the concept properly. The result showed that using enhanced worksheets the students performed well compared to their performance using existing worksheets that are commonly used in classroom settings. Enhanced worksheet is designed to suit the level of understanding of the students, thus, making them easily understand the

topic better compared to the existing worksheet which is designed for general use.

The result of the evaluation runs parallel with Prado [9] which the utilization of instructional materials such as worksheets had shown potential effectiveness to enhance students' performance and to strengthen positive attitudes and firm self-efficacy beliefs among students. The materials were found to be as effective as the prevailing teaching method of instruction by the teachers. Likewise, Olayinka [10] the importance of instructional materials such as worksheets in developing learners' intellectual abilities and attainment of teaching/ learning objectives cannot be over-emphasized. The students taught with instructional materials such as worksheets have outstanding achievement scores compared with those taught without any material.

5. CONCLUSION

Based on the study findings, the researcher concluded that the contextualized worksheets are generally accepted and recommended for use in the classroom setting. The experts on evaluation ratings showed a high level of validity and acceptability of the material produced. Furthermore, teachers handling related concepts helped foster good understanding and facilitated their skills in delivering the lesson in the proficiency process. It also inspired teachers to think more about innovative tools to promote practical learning at the local level.

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