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# Media Effectiveness Analysis Flipbook Digital Material Mocktail

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### Abstract

This study aims to analyze the effectiveness of using digital flipbook media to teach mocktails. This research uses a quasi-experimental method with a non-equivalent control group design. The study sample was a class of culinary students in the 10th grade at SMK Negeri 27 Jakarta, who were divided into two groups: an experimental group and a control group. This study collected data using pre- and post-tests, response questionnaires, and observations. The data were analyzed using univariate, bivariate, and knowledge improvement tests. The univariate test results for the control group obtained a t-count value of 9.78 > t-table 2.05, and the experimental group obtained a t-count value of 16.47 > t-table 2.05. This indicates that there was an increase in knowledge in each group before and after the intervention. The bivariate test results showed a t-count value of 8.18 > t-table 2.00, indicating a difference in the average increase in knowledge. Additionally, the N-gain score was 40% for the control group and 70% for the experimental group. Therefore, it can be concluded that students using digital flipbooks increased their knowledge more than students using PowerPoint media. The results of the response questionnaires for students and observers were also good, at 91% and 96%, respectively. This means that students and observers agreed that digital flipbook media effectively increased students' knowledge. Based on these results, it can be concluded that using digital flipbook media for mocktail material increases students' knowledge of hospitality.

**Keywords:** Digital Flipbook, Mocktail, Media Effectiveness, Knowledge Improvement.

### INTRODUCTION

encourage creativity, improve thinking skills, and plan and needs required. The measurement of media develop students' skills in building new knowledge effectiveness is used to describe the level of success so that mastery of the material is more optimal of this media when applied to the learning process (Anisa, 2023). In the learning process, there is two- in achieving previously set goals. Research related way communication between the teaching party to media effectiveness flipbook has been done and (teacher) and the learning party (students. The discussed in articles conducted by (Putri & Wiranti, purpose of learning is to increase the capacity of a 2023); (Ardiansyah & Ridwan, 2023); (Azzahra et person or group of people, such as skills, al., 2023); and (Diajengsari et al., 2023). The knowledge, attitudes to changes in behavior for the purpose of this study is to analyze the effectiveness better (Sari et al., 2023). To achieve this goal, media of implementing media flipbook digital material is needed as a tool to convey messages and mocktail towards increasing the knowledge of class information containing the intent and purpose of the X Culinary students at SMK Negeri 27 Jakarta and learning. The presence of media in the middle of the student responses to the effectiveness of learning by learning process has helped educators in conveying implementing digital flipbook material mocktail. the learning objectives to be achieved. Along with the development of science and technology, METHOD learning media is not only in the form of real objects or printed media, but also comes in the form of 27 Jakarta in April 2025. The subjects in this study visuals, audio, audio-visual, multimedia and the were class X Culinary students of SMK Negeri 27 web. One of the media that is developed and used to Jakarta. While the ones used as sample The research support learning activities ise-book based on is a class X Culinary 2 students totaling 30 people flipbooks.

The learning process that occurs in the XI subject of Catering, the media that is still often used is printed books and PowerPoint. During the use of the media, learning went well and the increase in

students' knowledge was quite satisfactory. shown as follows. Even so, students were also open to trying new, more innovative and interactive learning media. Use of media flipbook digital can be one of the media that can support the learning process of students both in and outside the classroom.

Use of media flipbook digital material mocktails in learning mocktail help students understand Engineering making, serving and serving mocktails properly and correctly. Flipbook This can be accessed anytime and anywhere, making it easier for them to learn the concept of the material in detail. Features such as text, images, and videos in it also support the improvement of knowledge and skills. Flipbook digital material mocktail developed by Sabrina et al. (2024), it is necessary to test the effectiveness of its use to determine how effective this media is when used in

the learning process.

Effectiveness interpreted as the Learning is designed by educators to achievement or success of a goal according to the

This research was conducted at SMK Negeri and X Culinary 3 which also totals 30 people. The approach in this study is quantitative. In addition, Culinary class at SMK Negeri 27 Jakarta in the the method used is like an experiment with design on- equivalent control group design. Where the experimental class will be given treatment in the form of media flipbook digital material mocktails, while the control class will be given treatment in the form of media PowerPoint. The research scheme is

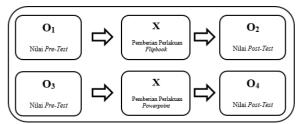


Figure 1. Schematic on-Equivalent Control Group Design

### **Data Collection Techniques**

Data collection techniques in this study were through tests. response questionnaires, observations. The tests conducted in this study were in the form of pre-test and posttest in the form of multiple-choice questions totaling 25 questions. In addition, a response questionnaire was also given to

students to find out feedback on how effective the calculation results of 25 questions obtained 2 (two) validity test of the question items, the reliability test very easy for students to understand. and the difficulty level test.

### **Test of Question Item Validity**

The assessment instrument used is questions Pré-test and post-test consisting of 30 multiple choice questions. Then a trial was conducted on 25 respondents to determine the validity of the questions. Questions are declared valid if they meet the criteria  $r_{count} > r_{table}$ . Result  $r_{count}$  obtained from each valid number compared to r<sub>table</sub>at n=25 with a significance level of alpha (α) 0.05 of 0.396. Based on the trial results, 25 valid questions were obtained.

**Table 1 Results of the Validity Test of Question** 

		ne	ms		
No	r	Status	No	r	Status
	count			count	
1	0,464	Valid	16	0,460	Valid
2	0,426	Valid	17	0,510	Valid
3	0,495	Valid	18	0,437	Valid
4	0,414	Valid	19	0,443	Valid
5	-0,180	Drop	20	0,481	Valid
6	0,006	Drop	21	0,444	Valid
7	0,412	Valid	22	0,560	Valid
8	0,449	Valid	23	0,560	Valid
9	0,457	Valid	24	0,444	Valid
10	0,180	Drop	25	0,397	Valid
11	0,430	Valid	26	0,527	Valid
12	0,470	Valid	27	-0,474	Drop
13	0,490	Valid	28	0,530	Valid
14	0,518	Valid	29	0,490	Valid
15	0,146	Drop	30	0,569	Valid
	0,110	Бтор	30	0,507	v an

### **Reliability Test**

The reliability test in this study used the Kuder Richardson-20 (KR-20) method. reliability test conducted obtained an r count of 0.795. These results indicate that the question instrument Pré-test and posttest reliability which is included in the high category.

## **Test Difficulty Level**

The difficulty level test is used to test the Homogeneity Test level of difficulty of each question item. The

media was. Flipbook digital used during the questions in the easy category and 23 (twenty-three) learning process. Observation in this study was by questions in the medium category. The absence of conducting observations during the learning process questions in the difficult category is likely due to in the control class and the experimental class. ability which students have are homogeneous and Before being used during the study, a test of the the majority can answer correctly, and the questions question instrument was carried out using the designed are not yet complex enough so that they are

Criteria	Question Number	Amount
Currently	1, 2, 3, 4, 5, 6, 8,	24
	10, 11, 12, 13, 14,	
	15, 16, 17, 18, 19,	
	20, 21, 22, 23, 24,	
	25	
Easy	7, 9	2

control class and experimental class, starting from counting mean, minimum value, maximum value, and standard deviation. While inferential analysis consists of normality test, homogeneity test, hypothesis test includes paired sample t-test and independent sample t-test, testN-Gain, and Likert scale.

# RESULTS AND DISCUSSION **Descriptive Data Analysis**

From the descriptive data that has been processed, the minimum, maximum, average and standard deviation values of the results were obtained pre-test and post-test control class and experimental class. The following presents the results of descriptive data analysis of the control class and experimental class.

Table 3. Descriptive Data Analysis of Control Class and Experimental Class

and Ex	<u>peni</u>	nentai <b>c</b>	Class		
	n	Min	Max	Mean	St.
Pre-test KK	25	36	64	50,53	6,34
Post-test KK	25	44	84	70,00	11,64
Pre-test KE	25	36	68	55,47	10,12
Post-test KE	25	72	100	86,40	6,94

Based on these data, there is a difference in the average value pre-test And posttest in the control class was 19.07 and the difference in the average value Pré-test and post-test in the experime ntal class was 32.40.

# **Inferential Analysis of Normality Test**

Test homogeneity done using Levene Test to find out whether each group of data in the study

is homogeneous. The homogeneity value is seen from the F value .count and  $F_{table}$  on *level significant* alpha ( $\alpha$ ) 0.05. The data from the homogeneity test calculation results are presented in the following table.

Tabel 4. Hasi Uji Normalitas

Perlakuan	n	Lhitung	$L_{tabd}$	Kesimpulan
Media Powerpoint	30	0,091		L <sub>titung</sub> < L <sub>tabel</sub> , maka H <sub>0</sub>
Media Flipbook Digital	30	0,122	0,161	diterima data terdistribusi normal

### **Homogeneity Test**

Test homogeneity done using *Levene Test* to find out whether each group of data in the study is homogeneous. The homogeneity value is seen from the F value .count and  $F_{table}$  on *level significant* alpha ( $\alpha$ ) 0.05. The data from the homogeneity test calculation results are presented in the following table.

# Hypothesis Testing Independent Sample T-Test

After the result data *pre-test* and *posttest* in the control class and experimental class it is stated that the distribution is normal and homogeneous, then furthermore processed using test independent *sample t-test*. Test results independent *t-test* in this study as follows.

Table 6. Test Results Independent Sample T-Test

tcount	Dk	alpha	table
8,18	58	0,05	2,00

### Paired Sample T-Test

Univariate test using paired *sample t-test* to see the difference in the average knowledge results in paired samples before being given treatment and after being given treatment in each group. The results of the t-value calculation count test paired *sample t-test* in each group as follows.

Table 7. Test Results Paired Sample T-Test

Paired Sample T-test Control Class								
	Mean	<u>n</u>	Std.Dev					
		30	10,90					
dk	-	29	_					
tcount	9,78	_						

table	2,05								
Paired Sample T-Test									
	Experimen	ntal Class							
	Mean	<u>n</u>	Std.Dev.						
	30,93	30	10,29						
dk		29							
tcount	16,47								
<b>t</b> table	2,05								

### Test N-Gain

Calculation *N-Gain* conducted to see the extent of the increase in students' knowledge after being given media treatment flipbook *digital* material *mocktail*. The calculation results obtained in the test *N-Gain* are as follows.

 Table 8. Calculation Results N-Gain

 N-Gain
 N-Gain

 Group
 Score
 Percent

 Control Class
 0,40
 40%

 Class
 0,70
 70%

 Experiment
 Total Class
 40%

### **Student Response**

Student responses were obtained by filling out a questionnaire which could show feedback and data on the effectiveness of media use. *Flipbook digital* material *mocktail*. The recapitulation of student responses is presented in the following table.

Table 9. Results of the Effectiveness Response Ouestionnaire

	Skor	•		Rata		
Aspek	SS	S	TS	ST S	Jum.	-rata (%)
Mutu pengajaran	380	75	-	-	455	
Tingkat pengajaran	351	114	-	-	465	91%
Intensif	200	210	-	-	410	
Waktu	403	147	-	-	550	

## **Observer Responses**

observation and assessment of media effectiveness questions were declared valid because  $r_{count} > r_{table}$ . flipbook digital material mocktail during the After that, a reliability test was carried out and a learning process. In addition to observing during the high result was obtained of 0.795. Furthermore, a learning process, observers also conduct interviews test of the level of difficulty of the questions was to find out students' feedback directly.

1) Observer response in the control class

Table 10. Results of the Observer Response Questionnaire in Class Control

				_		Rate
Aspect	SS	S	TS	ST	Day	(%)
				S		
Attractiveness	76	21	8		105	
Convenience	36	39	2		81	
Usage						
Relevance	32	27	2		61	
Material						82%
Interactivity		15	14		29	02/0
Media		13	14		29	
Knowledge	20	33	4		57	
Enhancement						
Learners						

2) Observer response in the experimental class Table 11. Results of the Observer Response Questionnaire in Class Experiment

				_		Rate
Aspect	SS	S	TS	ST	Day	(%)
				$\mathbf{S}$		
Attractiveness	76	21	8		105	
Convenience	36	39	2		81	-
Usage	_					
Relevance	32	27	2		61	
Material	_					82%
Interactivity		15	14		29	02%
Media	_	13	14		29	
Knowledge	20	33	4		57	
Enhancement						
Learners	=					

## **DISCUSSION**

was given, a test of the validity of the questions was treatment in each group.

conducted to measure whether each question item Observer responses are obtained through was declared valid or invalid. Of the questions, 25 carried out on 25 questions which obtained two results.

> (2) questions are in the easy category and twenty-three (23) questions are in the medium category.

The research process was carried out at SMK Negeri 27 Jakarta using class X Culinary 3 as the control class and X Culinary 2 as the \_experimental class. In the control class, students were given treatment in the form of media. PowerPoint. Meanwhile, in the experimental class, students were given treatment in the form of media. Flipbook digital material mocktails. Both classes were given questions Pré-test and post-test the same, then the value obtained will be processed and the difference in the average value will be seen. The results of the data analysis before being given treatment by carrying out pretest and after being given treatment, namely using PowerPoint in the control class and flipbook digital material mocktail in the experimental class showed an increase in value. The average value can be seen pre-test in the control class was 50.53 and in the experimental class was 55.47. After being given treatment, the average value post-test in the control class was - 70.00 and in the experimental class was 86.40.

Next, before hypothesis testing is carried out, the initial stages carried out are normality testing and homogeneity testing. Based on data from the control group and the experimental group, the data obtained from both groups are normally distributed and homogeneous. Hypothesis testing uses univariate tests, namely a paired sample t-test aims to see the differences in knowledge results before and after treatment in each group. The results of the univariate test calculations in the control group obtained a t value<sub>count</sub>by 9.78 > t<sub>table</sub>2.05. This study focuses on analyzing the Meanwhile, the experimental group obtained a t effectiveness of using flipbook digital material value of<sub>count</sub>by 16.47 > t<sub>table</sub>2.05. Both results show mocktail towards improving students' knowledge at a difference in knowledge before and after treatment SMK Negeri 27 Jakarta. The data obtained in this in each group. These results are in line with research study used a questionnaire instrument *Pré-test* and conducted by Dimu et al. (2024) that there was an post- test material mocktail. Before the instrument increase in student knowledge before and after

namely an independent sample t-test by comparing observations made by observers, but also through the difference between the average values in the the results of a questionnaire on student responses control group and the experimental group. The to the media. Flipbook digital material mocktail. results of the calculation obtained  $t_{count}$  by 8.18 >t<sub>table</sub>2.00 which can be interpreted as meaning that also carried out to assess how students responded to there is a difference in the level of knowledge of the effectiveness of learning while students who use media. Flipbook digital material media. flipbook digital material mocktails. The mocktail with those using the media PowerPoint. calculation results show an average value of 91% The difference obtained by the experimental class which is included in the very good category. These showed a higher difference compared to the control results indicate that students agree that the media class. This difference arose because flipbook digital flipbook digital material mocktail is very effective material mocktails visual and audio features that as a tool in the learning process both in and out of suit the needs of students, making it easier for them class. These results also agree with the research to understand the material. These results are in line conducted by Kumalasani & Eilmelda (2022) with research conducted by Lehan et al. (2023) and features on flipbooks has an influence on the Lestari et al. (2024) which showed a positive and learning process to become more interesting, significant influence on increasing the knowledge interactive, and stimulate the auditory senses. This of students who use media flipbook digital.

analyze the increase in students' knowledge. In the digital presenting images, audio, and video with control class, the results were N-Gain Score detailed explanations so that it can help students amounting to 0.40 which is included in the moderate understand the material. In addition, the media category. Meanwhile, in the experimental class, the flipbook digital also helps teachers in creating results obtained N-Gain Score amounting to 0.70 efficient learning, and enables students to carry out which is included in the high category. Based on the learning process independently anywhere. these calculations, the experimental class that uses if compared to with media PowerPoint.

from univariate tests, bivariate tests, and knowledge during the learning process. Based on observations improvement tests, the calculation results in the made by observers in the control class, the average experimental group were higher than the control score was 82%. This is different from the group. This shows that the use of media flipbook experimental class which obtained an average score digital material mocktails is very effective in of 96%. In the control class, the media PowerPoint increasing students' knowledge, this is also was considered effective in helping to learn the supported by observations made by observers material mocktails. during the learning process. In the control group, observation, several students were found to be less there were several students who were less enthusiastic when participating in learning, enthusiastic, so they paid less attention to the especially when the researcher was delivering the material being presented. In contrast to the material. This is due to the lack of media experimental group, students were enthusiastic even when they were first introduced to material in the form of writing and images, so that the media flipbook digital This. When given the researcher plays a greater role in delivering the instructions on how to use it, students pay close material using the lecture method and makes attention. They also look focused when asked to students less participatory during the learning study it independently. The form and features process. contained in this media make it very easy for students to learn the materials mocktail that is in it. students appeared very enthusiastic when this media

The next hypothesis test is a bivariate test, This is strengthened not only based on the results of

In addition, Likert scale calculations were shows the use of media flipbook digital effectively Score measurement N-Gain conducted to used in the process learning through media flipbook

Similar to student responses, in observer the media flipbook digital material mocktail higher responses, Likert scale percentage calculations were class control who use the also carried out to see observer responses in assessing the effectiveness of media use. Flipbook Based on the results of hypothesis testing digital material mocktail with media PowerPoint However, more interactivity. PowerPoint which only presents

In contrast to the experimental class,

was first introduced. Various features available in digital material mocktail compared to those using flipbook become a great attraction in helping PowerPoint material mocktail. students to understand the material more easily, because this media packages it in an interesting and material mocktail appear more enthusiastic and interactive way. In addition, the content of the active during the learning process. In addition, material in flipbook is quite complete and dense, but through the questionnaire of student responses and remains concise so as not to confuse students. observer responses, the percentage obtained showed Media in the form of digital links with light file sizes quite large results, namely 91% and 96%. This can be accessed anytime and anywhere without response can be interpreted that students and burdening the storage of students' devices. The observers agree to the use of media flipbook digital results of these observations are relevant to research material mocktail effective in improving students' conducted by Hasanah et al. (2021) and Yuliati et knowledge. al. (2024) which stated that the use of digital media supports the learning process to be better and more SUGGESTION sustainable so that it can spark the desire to learn presented.

knowledge, it can be concluded that the use of effectiveness of material delivery. media flipbook digital material mocktail very material presented is easy to understand and Schools using flipbook digital.

### **CONCLUSION**

been carried out through the data processing stage, understanding of vocational content. it can be concluded that there are changes or effectiveness in the use of media flipbook digital ACKNOWLEDGEMENT material mocktail towards increasing the knowledge of class X Culinary students at SMK Negeri 27 parties who have been willing to help and support Jakarta. This is reinforced by the results of during the research process until the writing of this calculations in the bivariate test hypothesis testing article. The researcher hopes that this article can using independent sample t- test t value is obtained increase insight and provide benefits, especially for count of 8.18 and the percentage increase in researchers and readers in general. knowledge (N-Gain) in the experimental group, 70% were obtained, which is included in the high **BIBLIOGRAPHY** category, meaning that there was a higher increase Anisa, in knowledge in students using media. Flipbook

Students who use media flipbook digital

Based on the conclusions presented, this and the creativity of students. In addition, it can also study suggests that the media flipbook digital on the encourage student-centered learning because they material mocktail can be used as an alternative can interact directly with the subject matter learning media that should be considered by educators, especially in the subject of Culinary Arts. Based on the results of the discussion of the Therefore, educators are encouraged to start research on the effectiveness of media use flipbook exploring and integrating flipbook digital into digital by analyzing the increase in students' teaching and learning activities to increase the

The implications of this research cover effective in increasing the knowledge of class X several areas. In the field of technology, the Culinary students at SMK Negeri 27 Jakarta. This development of interactive learning media such as study shows that the media flipbook digital has flipbook digital HTML5-based is considered advantages including its use is not limited by time effective and can be further developed with and place, the media can be accessed repeatedly, the multimedia integration and light gamification. also need to strengthen remember, and has good and clear visual quality. infrastructure and provide training for teachers in These things are supported by students who show the creation and use of flipbook digital. In addition, enthusiasm and interest during the learning process the integration of this media into the curriculum can support learning efficiency and reduce paper use. For vocational education flipbook digital expands access to self-study and presenting practical Based on the results of the research that has materials visually, thereby strengthening students'

The researcher would like to thank all

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