



## DIGITAL SUPPLEMENTAL LEARNING PACKAGE IN ARLING PANLIPUNAN 10

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### ABSTRACT

*This study aimed to determine the significant effects of the digital supplemental learning package in Araling Panlipunan as an educational tool for improving students' performance. It specifically sought to answer the mean level of assessment of using a digital supplemental learning package in terms of content quality, instructional quality, and technical quality; the mean level of the students' performance in terms of pre-test; and post-test; the significant difference in the students' performance in terms of pre-test; and post-test; and the significant effect of using a digital supplemental learning package in Araling Panlipunan as an alternative educational tool in improving the students' performance.*

*The statistical treatment of gathered data reveals the following findings:*

*The respondents responded very high level of assessment in terms of content quality, instructional quality, and technical quality which can imply that the digital learning package can be used as an alternative educational tool in teaching and learning Araling Panlipunan 10. Respondents are satisfied with the result, which can be inferred that it is great to use it for teaching the subject matter. The results reveal that the students achieve satisfactory performance in the pre-test while an outstanding performance is obtained in the post-test. The learners' scores improve during the post-test which indicates that the developed material can contribute to the students' performance. The significant difference in students' performance in terms of pre-test and post-test is observed to have a significant difference based on all descriptors. Findings also revealed that as observed from the beta coefficients, whenever there is a unit increase using a digital supplemental learning package as an alternative tool in teaching, the performance of the students did not increase as depicted by negative values.*

*Thus, the research hypothesis stating that "There is no significant difference in the students' performance in terms of pre-test; and post-test" is rejected. And the research hypothesis stating that "There is no significant effect of using a digital supplemental learning package in Araling Panlipunan ten in improving students' performance" is accepted.*

*In view of the findings and conclusions of the study, it is recommended that further evaluation and validation studies of this digital supplemental learning package may be done through an experimental design to other different learning modalities and learning competencies, as research demonstrates that this learning material is acceptable in terms of content quality, instructional quality, and technical quality. It improves the students' performance in terms of pre-test and post-test.*

### 1. INTRODUCTION

"The students of the future will demand the learning support that is appropriate for their situation or context. Nothing more, nothing less. And they want it at the moment the need arises. Not sooner, not later. Mobile devices will be a key technology for providing that learning support." - Dr. Marcus Specht

The above statement brings to light the current and future mobile learning expectations in the Education Department. Integration of technology in education is functionally evolving and changing to meet the needs of the 21st-century learners. Usage of e-learning tools in education meets the learning needs of current learners and optimistically will contribute to the learning maps of future generations of learners.

E-learning has dramatically increased its popularity in the field of education. The relay and receipt of information have developed with the advent of technology and inclination

to the internet. One of the advantages of e-learning is its adaptability to the current trend of students' information behavior in the modern age.

In the present pandemic we are experiencing; face-to-face teaching set-up shall jeopardize the safety of both the students and the teacher. Thus, the potential for distance learning through online teaching and using a digital supplemental learning package should be explored.

Araling Panlipunan 10 with the description Mga Kontemporaryong Isyu at Hamong Panlipunan was implemented way back in 2017 by the Department of Education. There are no updated printed learner's materials, and only limited digital learning materials are uploaded in the Department of Education's Learning Resources Management and Development System (LRMDS) and the Department of Education (DepEd) Commons. These are just some of the challenges encountered by the teachers.

To address these gaps, using a digital supplemental learning package as an alternative educational tool may be



very enjoyable and engaging. Students will be more engaged and active using a digital supplemental learning package. They will experience something fresh at their own pace and different than what they are used to in class. As a result of using the digital supplemental learning package, they will become active participants with more significant opportunities to develop and hone their 21st-century skills.

Knowing that the digital learning package might be used as an educational tool, the researcher investigated how effectively it increases students' performance abilities. This query piques the attention of the researcher, who is eager to learn the answer through this study.

### 1.1 Objectives of the Study

The study aims to determine the effects of the digital supplemental learning package in Araling Panlipunan 10 as an alternative educational tool for improving students' performance.

1. What is the mean level of assessment of using a digital supplemental learning package as an alternative educational tool as rated by the teachers and students in terms of:

- 1.1 Content Quality;
- 1.2 Instructional Quality; and
- 1.3 Technical Quality?

2. What is the mean level of the students' performance in terms of:

- 2.1. pre-test; and
- 2.2. post-test?

3. Is there a significant difference in the students' performance to

- 3.1 pre-test; and
- 3.2 post-test?

4. Is there a significant effect of using a digital supplemental learning package in Araling Panlipunan 10 as an alternative educational tool for improving the students' performance?

## 2. METHODOLOGY

### 2.1 Research Design

The descriptive method of research was employed in this study to gather the necessary data and information on the

effect of the Digital Supplemental Learning Package in Araling Panlipunan 10 as an alternative educational tool for students' performance.

According to McCombes (2019), descriptive research aims to describe a population, situation, or phenomenon accurately and systematically. Descriptive research involves the collection of data to test the hypotheses or to answer questions concerning the status of the subject matter. The independent variable: that consists of the digital supplemental learning package as an educational tool in terms of content quality, instructional quality, and technical quality, was associated with the dependent variable, which consists of students' performance in terms of the pre-test and post-test.

This study utilized one hundred ten (110) respondents comprised of ten (10) Social Studies Teachers and one hundred (100) Grade 10 students in Pedro Guevara Memorial National High School, Sta. Cruz, Laguna.

The purposive sampling technique was used in this study where Science and Technology and Engineering Program Grade 10 students and Araling Panlipunan 10 teachers from the secondary school were involved. They were chosen using purposive sampling since they were the appropriate persons who provided the necessary data helpful to this study.

### 2.3 Research Instrument

The main instrument used in this study were 1. the digital supplemental learning package in Araling Panlipunan 10 Sex and Gender Issues; 2. The adapted and modified survey questionnaire checklist; and 3. Pre/Post-Test. The adapted and modified questionnaire and pre/post-test research instrument were devised to determine the effectiveness of the digital supplemental learning package in Araling Panlipunan 10 as an alternative educational tool.

The adapted and modified questionnaire was divided into three (3) parts: Content Quality, Instructional Quality, and Technical Quality. At the same time, the pre/post-test was a multiple-choice test consisting of twenty (20) item questions.

To determine the respondents' responses to the study, the researcher used a questionnaire with a five-point rating scale to measure the level of assessment of the digital learning resource package.

**Table 1. Likert Scale to Measure Respondents' Assessment.**

Scale	Range	Description	Verbal Interpretation
5	4.21-5.00	Strongly Agree	Very High
4	3.41-4.20	Agree	High
3	2.61-3.40	Moderately Agree	Moderately High
2	1.81-2.60	Disagree	Low
1	1.00-1.80	Strongly Disagree	Very Low

The frequency and relative frequency of the respondent's scores in pre-test and post-test were determined using the rating scale below.

**Table 2. Frequency and Relative frequency of Score in Pre-test and Post-test.**

Range	Verbal Interpretation
17-20	Outstanding
13-16	Very Satisfactory
9-12	Satisfactory
5-8	Fair
0-4	Needs Improvement

### 2.4 Statistical Treatment

The following statistical tools were used in the conduct of this research.

**Table 3. Statistical Tools Used in the Study.**

Analysis	Statistical Tool
1. Mean level of assessment of using a digital supplemental learning package as an alternative educational tool.	Mean and standard deviation
2. Mean level of the students' performance.	Mean and standard deviation
3. A significant difference in the pre-test and post-test.	T-test
4. Significant effect on using digital learning resource package in Araling Panlipunan 10 as an alternative educational tool in improving students' performance.	Regression Analysis

## 3. RESULTS AND DISCUSSION

This study's focal purpose is to assess the digital supplemental learning package in Araling Panlipunan ten. It specifically sought to determine the level of assessment of digital learning packages in terms of content quality, instructional quality, and technical quality; determine the mean level of students' performance in terms of pre-test and post-test; determine the significant difference in the students' performance in terms of pre-test and post-test and determine the significant effect of using digital learning package in Araling Panlipunan 10 as an alternative educational tool in improving the students' performance.

The study's respondents were one hundred ten respondents comprised of ten Grade ten Social Studies Teachers and one hundred Grade ten students at Pedro Guevara Memorial National High School.

Finding reveals that the digital supplemental learning package in Araling Panlipunan ten is acceptable but has no significant effect on students' performance. The result shows that the respondents responded very high in terms of content, instructional, and technical quality, implying that the digital learning package can be used in teaching and learning Araling Panlipunan. Respondents are satisfied with the result, which can be inferred that it is great to use it for teaching the subject matter.

The results reveal that the students achieve satisfactory performance in the pre-test. In contrast, outstanding performance is obtained in the post-test. Similarly, evaluating a satisfactory performance in the pre-test and performance in the post-test is obtained. Just the same, in terms of analyzing a

satisfactory performance in the pre-test and performance in the post-test, as well as in terms of applying a satisfactory performance in the pre-test and the post-test, is attained.

It can be gleaned that there is a significant difference between the students' performance in the pre-test and post-test. P-value is at a lower level of significance which supports the result of the analysis. This means that the student's performance in the pre-test and post-test vary and that a higher performance upon administering the post-test implies the effectiveness of the intervention done.

In addition, as observed from the beta coefficients, whenever there is a unit increase using a digital supplemental learning package as an alternative teaching tool, the student's performance does not increase as depicted by negative values. It can be gleaned that there is no significant effect of using a digital supplemental learning package in Araling Panlipunan ten as an alternative educational tool for improving students' performance. P-value is at a higher level of significance which supports the result of the analysis.

## 4. CONCLUSION AND RECOMMENDATION

Based on the preceding findings, the following conclusions were drawn.

There is a significant difference between the students' performance in the pre-test and post-test. Also, there is no significant effect in using the digital supplemental learning package in Araling Panlipunan 10 as an alternative educational tool.

Therefore, the research hypothesis stating that "There is no significant difference in the students' performance in terms



of pre-test; and post-test" is rejected. While the research hypothesis stating that "There is no significant effect of using a digital supplemental learning package in Araling Panlipunan ten in improving students' performance" is accepted.

The following recommendations are made based on the conclusions drawn:

1. Social Studies teachers may encourage to develop other digital supplemental learning packages in different learning competencies to contribute to the archive of learning materials of their school or their district;
2. Education Program Supervisors may use this study as a springboard in developing supplementary learning materials by identifying the least learned skills in their subject areas per quarter.
3. School heads may include the development of Self-paced Learning Materials in their School Learning Action Cell (SLAC) and INSET for the promotion of higher academic performance of learners in all subject areas;
4. The school head may offer technical assistance to the teachers' intervention in teaching and learning. The school's annual implementation plan may also include these initiatives.
5. Further evaluation and validation studies of this digital supplemental learning package may be done through an experimental design to other different learning modalities.

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